TECHE
UDINE

MANOSCRITTI

FONDO PRINCIPALE

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ad Dich

In Universam Filosophiam Praefatio

Quod in more positum est omnibus, qui in disciplinam aliquam profitendam accedunt, ut quae de ejus nomine, origine, incremento, partibus, tractandique ordine nosse maxime necessaria ab initio paucis exponant, et complectantur; et mihi incumbere ut, prorsusque servandum esse intelligo cum filosophiam vobis explanare aggrediar, optime spei auditores, ideo, cum vestri deprehenderim ut vos, et aliis studiorum rationem reddere, et vobis ipsis meta quasi proposita viras incoeptis studiis addere possitis, tum omnino postulant SSa. majorum leges, quibus sapientissime cautum est, ne ad tradendam filosophiam deleoti, alio perfundi genere utantur. Itaque filosophiae nomen a duplici graeca voce Philos, et Sofia componitur, quarum illa cum amorem significet, haec sapientiam, filosophia recte sapientiae amor, et studium interpretatur. Porro sapientia ut veteribus definitum refert Cicero, est divinarum, et humanarum, causarumque, quibus hae res continentur, scientia: quare filosophia erit facultas, quae divinas res, et humanas, earumque causas inquirit, et contemplatur, nec sane aliud sensisse videtur egregie illud sapientiae lumen Pithagoras atque primus filosophi nomen usurpatum est: iterum cum multa de humanis, divinisque rebus, quo coram Leonte Phliasiorum, vel Sicioniorum tyranno disseruisset, interrogatus quam se profiteretur, respondit, se non sapientem, sed sapientiae amatorem esse, sive filosophum. At vero filosophiam licet a Pithagora nomen sit, ipsa tamen multo antiquiorem esse nemo dubitat. Cum ante Pithagoram, et innumeri excitarint filosophi, et plures filosophorum sectae floruerint. Porro autem, et obscura habuit principia, ut maximis quibusque facultatibus contigit, siquidem nonnulli acriore ingenio pollentes variorum naturae fenomena admirari primum coeperunt. Tum varias singulorum circumstantias expendere. Ac demum novitate rerum excellentia, atque utilitate ducti causas inquirere, ordinem et affectus prosequutari, donec inventis quibusdam statutisque naturae legibus, novisque in dies notionibus accedentibus et filosophiam perduxerunt, ut vera scientia [illegible] esse.

Quod filosophiae partes spectat, hae a primis usque temporibus duae, communiter statutae sunt, quarum una veritatem, altera honestatem rerum complectatur. Illa, quae in Logicam, Metaphisicam, Fisicam dividitur, naturalis dicitur. Haec moralem nominat sive Ethicam. Nos singulis singulos dedarit opera nostra singillatim impendamus. Interim vos hortor auditores, ut pro insito desiderio, quo ad sapientiam contenditis, iis, quae hoc studiorum curriculo vobis sunt tradi[t]urus assidue, diligenterque incumbatis, et alacri animo filosophiam aspiciendi.

Licet enim filosophiæ studium in principiis severum, insuave, et asperum, nobile forte videri possit ubi aliquantulum processeritis, ubi denique et emolumentum ejus in animo vestro illucebit, sequetur voluptas discendi insatiabilis. Adsit mihi, ac vobis omnibus Increata Sapientia, et D. Sap. Ma. B. Virgo. Adsint et Cong. N. Paulus Ap. et studiorum nostrorum protector D. Thomas Aq. virum, et nostræ Cong. insigne ornamentum Alex. Saulius; ne unquam a sincero veritatis, et honestatis amore, qui præcipuus est filosophiæ finis, recedamus, et ita in studiis nostris dirigamur, ut neque mandavimus, neque vos didicistis unquam debeat poenitere.

In Logicam Præfatio

1 Logica, quæ etiam dialectica, dialectica ars cogitandi, ars logico critica, et aliter ab aliis appellatur. Antonio Genuensi de sapientia, est ars, quæ ratiocinium, et judicium nostrum format atque regit in sapientiæ studio, sive ut habet Tullius in Bruto, quæ docet rem universam tribuere in partes, latentem explicare definiendo, obscuram explanare interpretando ambigua primum videre, deinde distinguere. Postremo habere regulam, qua vera, et falsa judicentur. Et quæ quibus positis sint, quæque non sint consequentia. Finis hujus elementi unus est, quod a veris, ac veris sint eruditi. At ea nec adeo perfecta undique habere fatetur Genuensis, qui de arte logico critica ultimus scripsit; hinc nos nulli subscribemus auctori. Sed ex singulis, qui meliores videbantur opiniones, quasque, excerpentes logicæ documenta, quæ nec brevitate, cum debita definiantur, et usui nostro sint magis accomodata.

2 Sed ut res ex voto cedat, nonnulla de quibus alibi fusior occurrit sermo, delibanda hoc loco sunt, quæ ad sermonem lucem: ac principio hominem duabus constare substantiis, quæ licet arctissimo inter se nexu sint conjuncta, et invicem pendeant, natura tamen longe differunt inter se. Cum enim plures in nobis operationes animadvertamus, perceptiones, judicia, ratiocinationes, quæ et corpori non conveniunt, et notis proprietatibus corporum repugnant, inferimus recte, substantiam aliam aliud principium a corpore diversum ... esse, a quo operationes illæ proficiscerentur. Principium hoc animum dicimus, animam vel mentem humanam, nobis quippe idem ea voces sonant, licet ex veteribus nonnullis, animus sit vis qua vivimus, anima facultas qua sentimus, mens vero vis ac facultas qua intelligimus.

3 Deinde et illud addi debet humanæ mentis facultates tres esse potissimas, intellectum, libertatem, et vim motricem. Prima ut vero bona cognoscimus, data est, altera sciamus eligere. Tertia ut cognita, et electa exequamur, omnes felicitatem hominis respiciunt, nullus enim dubitat quin sibi bonum agnoscat, eligat, et exequatur ad eam pervenire beatitudinem ad quam ferimur omnes naturæ ipsius impulsu vehementissimo

4 Sed iam ut praemissis ad elementa Logicae accedamus, hanc in partes, has in capita [illegible] ut opportunius videbitur dividamus. Vos illud meminisse [illegible] viam artis Logicae logicum non efficere, sicut ars [illegible] oratorem efficit oratorem, sed studium atque usus efficit meditatione [illegible] et [illegible] docere [illegible] proprio meditationem [illegible] quam regulas omnes [illegible] [illegible] logicis traditas [illegible]

Elementorum Logicae pars prima de [illegible] operationibus humanae mentis

5 Elementa Logicae ab hinc exordiri, quae varias humanae mentis operationes spectare, ipsa exigit disciplinae ratio, [illegible] enim [illegible] studio [illegible] [illegible] praecepta Logicae nisi prius quae mentis operationes sint, et quo pacto instrui debeant [illegible] innotescat. Porro mentis operationes [illegible] [illegible] communiter [illegible] [illegible] [illegible] ratiocinatio, de quibus singulari [illegible] tribus capitibus disseremus. Nunc sit [illegible]

Caput Primum

De [illegible] et iis quae ad eam [illegible]

6 Cum iam aliquam mentem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] percipere dicimur; [illegible] perceptio [illegible] [illegible] ea operatio qua simpliciter [illegible] [illegible] mente repraesentata apprehendimus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quae res corporeas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in corpore [illegible] [illegible] [illegible] [illegible]. Sensatio [illegible] [illegible] corpore a [illegible] [illegible] moventur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] rerum imaginem [illegible] perceptiones [illegible] [illegible] perceptiones [illegible] [illegible] [illegible] percipiens [illegible] [illegible] [illegible] [illegible] percipit quam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] natura [illegible] [illegible] [illegible] perceptionem [illegible]

7 [illegible] perceptionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Quod porro duo [illegible] [illegible] mente [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] possibiles [illegible] [illegible] [illegible] [illegible] [illegible] perceptionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nobis sufficiat [illegible] [illegible] [illegible] [illegible] confundendas [illegible] [illegible] imaginationem [illegible] impressionibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporea, spiritualia [illegible] [illegible] [illegible]

8 Non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] origine [illegible] corpori [illegible]

Hae tamen ideae, neque verae, neque falsae sunt, sed judicia quae de ipsis ferimus aut veritatis aut erroris, si ullus occurrat, 13
incipiunt. Cum corpora videntur, si cum sola spectant ipsorum existentia solum sunt vera, cum vero essentias spectant et relationes mutuas, falsa, ut plurimum sunt; et saepius suspecta quemadmodum [illegible] quibus plurimi pene nulla [illegible] nos objecto [illegible] respondent. [illegible] Idcirco [illegible] [illegible]. Cum autem, ne in judiciis nostris ~~[illegible]~~ [illegible], errata et absurditates errores sunt ~~[illegible]~~. Nam [illegible] ideas [illegible] [illegible] [illegible] mentibus indicissa.

9 [illegible] in natura [illegible] intelligibiles dicuntur, cum nec corpus repraesentant, nec rem ullam corporis. Universales sunt ideae abstractae omnes [illegible] [illegible] vel tantae [illegible] cum rem corpoream vel in ipsam corporis accedunt ~~[illegible]~~ mente. Praeterea [illegible] ut simplices, quae ne mente quidem [illegible] in partes possumus, vel compositae, quae in plures ideas [illegible] plures dividuntur.

10 Relatione ad objecta idea sunt positivae, si mente exhibent id quod res est, negativae si exhibent [illegible] quod res non est, [illegible] si omnes objecti notas distincte [illegible] [illegible]. [illegible] si confusae [illegible] partem tantum attributa, si nullam cum aliis relationem habent, relativae si habent aliquam abstractae, quarum unita invicem [illegible] ut separata, [illegible] res vel compositae, quibus invicem separata [illegible] ut unita. Chimaericae, quibus nullo [illegible] nos objecta respondent, reales quibus respondent aliqua existentia vel possibilia. Singulares quae unum [illegible] mente repraesentant, universales quae repraesentant plures [illegible]

11 [illegible] cum in universalibus ideis summo [illegible] [illegible] quaecumque classes subjici [illegible] complecti quae cum [illegible] scholastici, scilicet genus, species, differentia, proprium et accidens. Genus dicitur attributum universale commune pluribus, quae specie differunt, uti animalitas, quae homini convenit et bestiis, et [illegible] vel summum si nullum habeat supra se universale attributum, vel medium supra quod ipsum habeat attributum universale vel remotum, si tamen habeat infra se, vel infimum sive proximum si nullum habeat infra se. Differentia attributum, per quod res una differt ab alia cum qua in genere convenit, atque essentialis differentia, seu specifica, si attributum essentiale rerum spectat, vel accidentalis aut numerica, si attributa rebus competere [illegible] [illegible]. Species est attributum universale quod pluribus numero differentibus competit [illegible] essentia [illegible] non [illegible] [illegible] [illegible], [illegible] [illegible], et differentia [illegible]. Proprium quatuor [illegible] modis: vel accidens est quod convenit speciei, [illegible] [illegible] non omni [illegible] sed non soli; vel omni et soli, sed non semper, vel omni, et soli, et semper. Accidens universale attributum est, quod a subjecto salva ipsius natura [illegible] [illegible] adjungi potest, uti color in corpore.

12 [illegible] relatae ad mentem idea esse possunt [illegible], si [illegible] [illegible] [illegible] cum [illegible] occurrat, [illegible] [illegible]. [illegible] observo et objectum [illegible] [illegible] [illegible] occurrat [illegible]

13 Porro finita mentis nostrae capacitate, et attentionis defectu fit, ut ideas confusas [illegible] ac inadaequatas [illegible] quae in nobis reperiamus nullas vero, aut paucas [illegible] claras distinctas, et adaequatas, si geometricas [illegible] [illegible] tum in judiciis nostris fallimur; dum ea ex ideis fantasticis [illegible] abstractis universalibus et inadaequatis [illegible]. Itaque primo curandum ut ideas confusas obscuras et inadaequatas studio experientia ac meditatione claras distinctas et adaequatas efficiamus; deinde cavendum ne ex ideis fantasticis [illegible] — abstractis universalibus inadaequatis [illegible] judicemus.

14 Cum ideas nostras vocabulis exprimamus, quae [illegible] illarum sunt [illegible] [illegible] aliquid [illegible] de vocabulis. [illegible] [illegible] [illegible] [illegible] vocabulorum usus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] hisce finibus semper [illegible] [illegible] pluribus [illegible] [illegible] ut habeat [illegible] [illegible] [illegible]: quae sunt: primo usus vocum, quibus aut [illegible] aut nullam ideam applicamus, secundo inconstantia in vocum usu, quia plures diversasque notiones una voce exprimimus, tertio affectata obscuritas, quia aut usitatis vocabulis notiones affingimus inusitatas, aut [illegible] ob quae ulla definitione, aut verba sic copulamus ut [illegible] [illegible] [illegible] non [illegible] persuasio quod voces non ideas [illegible] [illegible] quanta confusio idearum [illegible] vocabulis [illegible] [illegible]. Porro haec vitabis, si primo maximam [illegible] potes tibi vocum copiam ex peritissimorum [illegible] [illegible] [illegible] — ac sermonis claritati, et distinctioni [illegible] iisdem vocabulis easdem semper ideas precisas, et definitas exprimas. denique [illegible] [illegible] [illegible] aut nunquam utaris.

Caput secundum de judicio

15 Judicium est mentis humanae actus quo aliquid de re aliqua affirmamus aut negamus quippe mens ideas inter se ita comparat, ut [illegible] habitudinem copulet aut conjungat per affirmationem, aut disjungat per negationem [illegible] aliquid [illegible], vel ab ea removeat. Hinc judicium aliud positivum est, aliud negativum [illegible] functione potest duas solum ideas in judicio conjungere [illegible] [illegible] ad judicium constituendum, [illegible] [illegible] quae duas illas ideas conjungat aut separet

16 [illegible] [illegible] attributo vel praedicato quod de subjecto [illegible] [illegible] vel disjunguntur sic in propositionibus: [illegible]

[illegible] propositionem [illegible]

[illegible] propositiones [illegible]

2. [illegible] propositiones [illegible] simplices [illegible] compositae [illegible] plures [illegible] propositiones simplices [illegible] praedicatum [illegible] propositionis [illegible] principales [illegible]

3. [illegible] Propositionum qualitates [illegible] propositio [illegible] necessaria [illegible]

5. [illegible] propositiones [illegible] universalis [illegible] propositiones [illegible] [illegible] propositiones [illegible] propositionis [illegible]

[illegible] hæc, ut facile propositionum distinctiones [illegible] patientur cognoscamus

[illegible] propositiones quæ sunt divisionum, et [illegible] quibus [illegible] separant [illegible] particulares [illegible] divisio est, qua totum distribuitur in suas partes. [illegible] partes quæ in toto [illegible] dicuntur, et totum ipsum vocatur totum actuale, [illegible] totum potentiale [illegible] proprie appellatur [illegible] totius potentialis proprie divisiones [illegible]

Dividatur totum in partes [illegible] proximas, et hæ [illegible] explicemus

Divisio [illegible] sive divisiones partes [illegible]

Divisiones [illegible] oppositæ [illegible] includuntur.

Definitio dicitur oratio [illegible] explicans id quod in re [illegible] obscurum est [illegible] Definitio [illegible] nominis [illegible] natura [illegible] est [illegible] significare [illegible] sunt propria.

Definitio constat genere ultimo, et differentia

[illegible] terminus [illegible] universalis et proprius [illegible] convenientem [illegible] clarior [illegible] clariis [illegible] definiens.

[illegible] logice [illegible] nominare [illegible] definitionis [illegible] geometria [illegible] sufficit [illegible]

Caput Tertium De Ratiocinatione

Cum [illegible] aliqua judicium [illegible] volumus [illegible] quæ in [illegible] debere [illegible] separari [illegible] comparationem [illegible] notescat [illegible] illorum [illegible] mentis [illegible] ratiocinatio

23 [illegible] semper [illegible] syllogismo [illegible] demonstrationibus [illegible] forma [illegible] exemplum [illegible] est [illegible]

Syllogismus est argumentatio [illegible] tres terminos continens, complectens tres propositiones [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
plus [illegible] A [illegible] B, [illegible] [illegible] [illegible] [illegible] [illegible], prima propo[sitio]
dicitur major, secunda minor; et utraque praemissarum nomine designatur
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 3
[illegible] consequens et consequentia, [illegible] [illegible] connexionem consequentis cum praemissis.

Enthymema [illegible] est syllogismus truncatus [illegible] in quo aliqua [illegible]
reticetur. [illegible] [illegible] [illegible] humana [illegible], ergo est spiritualis: [illegible]
[illegible] propositio, [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], [illegible] [illegible] [illegible] argumentando [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], ergo [illegible]
[illegible] Enthymematis propositio prima dicitur antecedens, altera consequens vel
consequentia

Inductio est argumentatio, qua ex particularibus [illegible] enumeratis concluditur pro-
positio universalis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible]
omnia terrestria corpora sunt gravia. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible], et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et omnium [illegible] [illegible]
[illegible] singularium [illegible] enumeratio

Epichirema, Aristoteli [illegible] syllogismus probabiliter [illegible] concludens; aliis vero [illegible]
syllogismus compositus, in quo utrique vel alteri [illegible] praemissarum sua adjicitur
probatio

Sorites [illegible] est argumentatio plures complectens propositiones [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] conjungatur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] beatitudinis [illegible] [illegible] [illegible] est, tempe-
[illegible] est, qui temperatus est, et constans, qui constans est et [illegible] [illegible] [illegible]
[illegible] [illegible] est, [illegible] [illegible] est [illegible] [illegible] [illegible] beatus est
ergo prudens beatus est

Dilemma [illegible] [illegible] vocant argumentum [illegible] [illegible] [illegible] est argumentatio
[illegible] [illegible] [illegible] [illegible] constans [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible], [illegible] ergo [illegible] [illegible] [illegible]

3. [illegible] est argumentatio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

3. Definitio demonstratio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] necessario [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] propositiones [illegible] [illegible], et consequens, [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
praemissis [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] principiis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] propositionem [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

possunt innotescat, circa quae maxima [illegible] ac margines [illegible] [illegible]
[illegible] et in [illegible] in quibus [illegible] maxime sunt [illegible], ac [illegible]
plura docent [illegible] logica libro [illegible], et varias quaestiones [illegible]
[illegible] quorum [illegible] supponimus apud omnes constare

32. [illegible] in ratiocinationis syllogismo utamur saepe, ac [illegible], ratiocinandi formam ac syllogismi
[illegible] sufficit [illegible] [illegible] hic [illegible]. [illegible] hic [illegible]
[illegible] propositiones particulares [illegible]
in universalibus ejusdem generis, non e contra. [illegible] propositione [illegible]
[illegible] particulariter, aut habere [illegible] extensionem majori [illegible]
[illegible] propositione [illegible] [illegible], sive cum
extensione majori [illegible] his posites syllogismi leges sunt

1. [illegible] syllogismus pluribus, quam tribus terminis constat. [illegible] concludat syllogismus A [illegible]
[illegible] aequalis [illegible] A aequalis [illegible] [illegible] habet terminos, [illegible]
[illegible] totus [illegible] praemissis [illegible] ac consequentia; [illegible]
[illegible] in hoc [illegible]. A [illegible] aequalis [illegible]: ergo A aequalis C

2. [illegible] comparationes [illegible] in praemissis [illegible] universaliter. [illegible]
[illegible] particulariter; non [illegible] ac syllogismi [illegible] terminus [illegible]
[illegible] syllogismus [illegible] tribus terminis constabit, [illegible]
[illegible] plana est circulus, [illegible] figura plana est [illegible]
[illegible] figura plana, quae est medium comparationis in majori propo-
sitione non est eadem figura plana, quae est medium comparationis in mino-
ri; [illegible] sit circulus [illegible].

3. Termini consequentis [illegible] universaliores, quam in praemissis. [illegible] in [illegible]
[illegible] consequens [illegible] necessariam, [illegible]
[illegible] triangulum [illegible] habet latera. [illegible] est figura plana. [illegible]
[illegible] figura plana tria habet latera. [illegible] figura plana [illegible] in conse-
[illegible] significatione [illegible] in praemissis

4. Ex praemissis negantibus nihil concludi potest. [illegible] in praemissis negantibus [illegible]
[illegible] [illegible]. [illegible] circulus [illegible]
[illegible] quadratum non est triangulum [illegible]
[illegible] circulum triangulum [illegible] posset

5. Ex praemissis affirmantibus nequit concludi negatio. [illegible] convenire
negatis, quae [illegible] medio convenire

6. Conclusio semper sequitur praemissam [illegible], scilicet negat[illegible] aut particularem [illegible]
[illegible] [illegible] ratiocinandi formas nunc [illegible] [illegible], et capriciosis [illegible]
[illegible] [illegible] consistunt, [illegible]
[illegible] [illegible] [illegible]
[illegible], quod illi [illegible], [illegible] fallacia dicti non simpliciter
[illegible] [illegible], ut [illegible]
[illegible] non [illegible] habemus [illegible]
[illegible] fallacia petitionis principii, et circulus vitiosus, [illegible] principii loco [illegible]
[illegible] quod est in quaestione [illegible] per [illegible]

[illegible] per [illegible] [illegible] aut ob [illegible] [illegible]
eo procedimus, fallacia [illegible] (in orationi) [illegible], ut olim [illegible] quam [illegible]
[illegible] fallacia plurium interrogationum, sed plures simul interro-
gantur, [illegible] una responsione uno [illegible] syllogismatibus [illegible]
[illegible] argumentum [illegible]
[illegible] opiniones nostras [illegible] auctoritate [illegible]
[illegible] ignorantia [illegible] ignorantia rationes [illegible]
[illegible] nostros [illegible] argumentum [illegible] opinionibus [illegible]
[illegible] sunt certe nostros [illegible] argumento [illegible]
[illegible] ut confirmentur, non autem [illegible]
[illegible] argumentum ob analogiam et congruentiam cum [illegible] (quae connexa) similibus res [illegible]
[illegible] non [illegible]

3. [illegible] [illegible]
[illegible] affectiones
[illegible] necessitate [illegible] significat
[illegible] amphibolia sive captio ambigua [illegible] ambiguitate [illegible] argumenti [illegible] compositi, sive unio plurium [illegible]
[illegible] argumentum [illegible] composito [illegible]
[illegible] conjunctae

[illegible] possumus [illegible] necessariae [illegible] spectat modum [illegible]
[illegible] rationis [illegible] [illegible] ratiocina-
tionis [illegible] compositionis [illegible]
nulla [illegible] potest [illegible] plerumque [illegible]
[illegible] improba [illegible]
[illegible] comparationis [illegible]
[illegible] principia [illegible]
[illegible]

1. [illegible] ita [illegible] ut [illegible] connexio [illegible] cognosci possit
2. [illegible] conclusionibus connexio semper perspecta [illegible]
3. [illegible] necessaria tamen conclusiones [illegible]
3. [illegible] respicit [illegible] veritatem [illegible]
[illegible] ut demonstrationi [illegible] argumentatione [illegible] respicit veritatem [illegible]
[illegible] methodus [illegible] sive [illegible] compositis [illegible]
[illegible] universalia [illegible] veritatem [illegible]
[illegible] methodus [illegible] expressione [illegible]
[illegible] compositione [illegible]
[illegible] methodus [illegible]
[illegible] complectamur

3. Principia [illegible] analytica [illegible] methodo communes sunt
1. [illegible] atque [illegible] difficilia [illegible]
[illegible] et [illegible]
[illegible]

In singulis gradibus seriem, iudiciorum quibus ratiocinatio continetur, cura ut exacte
sequantur evidentia, et certitudo

Stilo utendum utique simplici facili, et naturali

[illegible] accurate divide, membra singula diligenter perpendere vires ac [illegible]
[illegible]

Hagas autem Analitica methodo peculiares sunt

[illegible] perquire, quibus [illegible] ratium sentis. [illegible]
[illegible] qui scribitis [illegible]
viribus, et versate diu, quid ferre recusent
quid valeant humeri

Verbis [illegible] expone [illegible] quaestionis, ac quid quaerendum sit [illegible] investigandum

Quaestionem compositam in alios simplices [illegible] singillatim [illegible]
[illegible] possunt

[illegible] sunt [illegible] diligenter [illegible]
[illegible] possibiles [illegible] hypotheses [illegible]

Principia ac [illegible]
[illegible] quae ad solvendam quaestionem [illegible] perspice relatione [illegible]
[illegible]
[illegible]

[illegible] principia, complexa [illegible]
[illegible]

[illegible] opinionem [illegible]

[illegible] non [illegible]
[illegible] tantum [illegible]

[illegible] Hagas [illegible]

[illegible]

[illegible] definitiones, postulata, ac
[illegible] observationes [illegible]

[illegible] propositiones simplices ac [illegible] in unum
composita [illegible]

[illegible] hypothesim [illegible] obscura declarans, ac [illegible]
[illegible] quaestione

[illegible] analitica [illegible]
[illegible] inventione, ac [illegible]
[illegible]
positione [illegible]
[illegible]
[illegible] propositionem [illegible]
[illegible] argumenti [illegible]
[illegible]

[illegible] amicus et involuta sunt explicare [illegible]

[illegible]

[illegible] argumenti [illegible] supponat [illegible] in ipso argumento non explicet [illegible]

[illegible]

[illegible] primo argumento [illegible]

[illegible] propositiones [illegible]

[illegible] disputatio absolutur

[illegible]

[illegible] operibus [illegible]

Logicae [illegible] opusculis [illegible]

Elementorum Logicae pars secunda

De veritate [illegible]

[illegible] logica [illegible]

[illegible]

[illegible]

[illegible]

[illegible] vero, et falso

43 [illegible] veritatem [illegible] moralis [illegible]

[illegible] moralis [illegible]

[illegible]

[illegible] logica veritas [illegible]

[illegible] logica [illegible] formalis

[illegible]

[illegible] logica [illegible]

[illegible]

[illegible] veritas [illegible]

[illegible] veritate [illegible]

[illegible]

[illegible] appellati [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

contra, et ea quae cognoscuntur, infinities iis minora esse quae ignorantur: [illegible] de omnibus dubitare, et multo plura se ignorare, imo [illegible] nullo modo scire posse contendunt. [illegible] sapientissimi [illegible] [illegible] existentia [illegible] mentis, quam [illegible] [illegible], et idealistae vocantur. Aut nullam esse existentiam contra [illegible] [illegible] esse et [illegible] [illegible], [illegible] sceptici dicuntur.

45. [illegible] vero [illegible] veritatis logicae [illegible] [illegible], [illegible] sceptici moderatos, et idealistas [illegible] non est animus: [illegible] sapientes [illegible] nos [illegible] [illegible] omnibus filosophis nostri [illegible]; quippe [illegible] [illegible] placet humanae [illegible] [illegible] non est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], et opinione [illegible] dimittere, [illegible] [illegible] nos nostrae [illegible] [illegible] [illegible], ut nos [illegible] [illegible] sapientiae [illegible] [illegible]: [illegible] idealistas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], nostrae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et veritatibus omnibus certos [illegible] [illegible] [illegible] nobis [illegible] contra scepticos, [illegible] [illegible]

[illegible] in humanis mentibus [illegible] logicae [illegible] veritates

[illegible] contra [illegible] [illegible] [illegible] cognoscunt. [illegible] existentia [illegible] cognitione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alia [illegible] quae non [illegible] existentia nostra [illegible] [illegible] [illegible] et cognoscimus [illegible] nos [illegible] [illegible]. [illegible] [illegible] [illegible] plura [illegible] [illegible] cognoscimus, [illegible] plures in humanis [illegible] [illegible] [illegible] in humanis mentibus [illegible] [illegible] [illegible] veritates [illegible] natura [illegible] in [illegible] [illegible] [illegible] [illegible] et [illegible] cognitionis et scientiae cupiditate [illegible] [illegible] [illegible] errare nescire [illegible] et [illegible] [illegible] esse [illegible] [illegible] capite [illegible] [illegible] naturae [illegible] [illegible] cognoscendi [illegible] [illegible] [illegible] [illegible] veritates [illegible] et [illegible], [illegible] ubi [illegible] [illegible] [illegible] propositionibus [illegible] [illegible] [illegible]. [illegible] [illegible] singulis [illegible] sive ingenio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] nulla est [illegible] [illegible] non [illegible] [illegible] [illegible] cordato [illegible] homini [illegible] [illegible] [illegible] sceptici [illegible] [illegible] in humanis mentibus [illegible]

[illegible] sceptici

[illegible] humana [illegible] [illegible] quae [illegible] [illegible], et cognitiones verae [illegible] [illegible] conformes [illegible] [illegible] [illegible] veritatem logicam [illegible] probat, [illegible] [illegible] [illegible] [illegible] est cognitio [illegible], [illegible] naturae [illegible] propriae [illegible] et cognitionem [illegible] [illegible] [illegible] [illegible] et cognitio [illegible]. [illegible] [illegible] sit conformis [illegible] [illegible] [illegible] [illegible] natura [illegible], [illegible] [illegible] contemplatione, [illegible] [illegible] persuadere, et [illegible] [illegible] [illegible]

Nihil vero certius est, quod revocari in dubium nequeat; imo et pluribus in rebus [illegible] non sic, revera philosophi [illegible] in utramque partem disputant, et in plerisque [illegible] dissentiunt [illegible] et fabulas [illegible] narrant [illegible] ex ipsis principiis plurimis serio [illegible] plurimi, ac [illegible] certis [illegible] in [illegible] et [illegible] ratiocinationes [illegible] [illegible] nos certo aliquid scire asserat [illegible].

[illegible] medium [illegible] quo mens humana [illegible] idea et cognitionis conformitatem [illegible] rei [illegible] naturae intelligit, aut tamen [illegible] [illegible] [illegible] [illegible] certo scimus, [illegible] [illegible] [illegible] difficultates occurrentes [illegible] [illegible] idea et cognitionis [illegible] natura [illegible] rei conformitatis [illegible] et cognitionis claritate, perspicuitate et [illegible] [illegible] nec ullo alio modo [illegible] distinctaque menti [illegible] [illegible] apparent, ut quamvis [illegible] conformitatis [illegible] rebus [illegible] nullo modo possit [illegible] evidentia [illegible] ut necessario intellectus assentire [illegible] in quaestionibus [illegible] [illegible] cognitionem quae claritate ac perspicuitate [illegible] ut [illegible] [illegible] rationis [illegible] et distincte intelligamus nos [illegible] [illegible]

[illegible] evidentiam [illegible] claritatem ac perspicuitatem [illegible] et [illegible] ideas [illegible] res non [illegible] evidentia [illegible] vera claritate [illegible] [illegible] [illegible] [illegible] in his [illegible] [illegible] confusas ac indistinctas.

[illegible]

[illegible] certo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] non probant nullos in humana mente [illegible] existere [illegible] veritates objectivas [illegible]

[illegible] Media veritatis assequendae [illegible] assignantur possunt [illegible] intima con[illegible] intelligentia, sensus, ratio et auctoritas. [illegible] cognoscimus interna [illegible] externa; quae interna, aut intima conscientia, [illegible] [illegible] externa, aut sensibus [illegible] corporis [illegible] simplici intelligentia [illegible] nostrae capacitati sunt [illegible] nostrae capacitatem superant, porro [illegible] [illegible] hujusmodi [illegible] media ipsa [illegible] cavillationibus vindicare necesse est, [illegible]

Propositio I. Media conscientia [illegible] intimo plura cognoscimus [illegible]

Probatur. Plura cognoscimus evidenter [illegible] certo quae interiori [illegible] homines [illegible] ut nos vivere cogitare [illegible] cognoscimus [illegible] media conscientia.

[illegible] sapientes non moveamur, [illegible] opponunt [illegible] nos [illegible] nostra [illegible] somnians [illegible] visa [illegible] vires [illegible] continuo [illegible] ut dormiamus, [illegible] nos cogitare [illegible] sentiamus [illegible] [illegible] nos [illegible] [illegible] tale non sint, [illegible] posse [illegible] conscientia nostra, [illegible] intima [illegible]

[illegible] sapientes non movemur: [illegible] nos [illegible] argumentis [illegible] nos [illegible] vivere cogitare: [illegible] [illegible] vivere ac cogitare. [illegible] posse [illegible] [illegible] [illegible] [illegible] [illegible] cognoscimus, [illegible] contra [illegible] somnio, [illegible] perceptiones [illegible] vaga, [illegible] somnio, [illegible] [illegible] [illegible] nos [illegible] tempore, [illegible] dormire.

[illegible]

[illegible]

Propositio secunda.

Mediis corporis sensibus plura cognoscimus vera [illegible]

[illegible]

[illegible] in [illegible] [illegible] [illegible]
[illegible]
[illegible] proprietate [illegible]
usui utiles sunt, aut nocivae. Igitur [illegible]

2. [illegible] primo [illegible] corporum [illegible] qualitates, [illegible]
[illegible]
[illegible] magnitudines [illegible]
[illegible] Deus [illegible] naturali [illegible]
[illegible] fuerint [illegible]
[illegible] facere [illegible] [illegible] corpora
[illegible] magnitudine
[illegible] in mentibus [illegible]
[illegible] plurima [illegible]
[illegible] omni imaginatio-
nis [illegible] oculis [illegible]
[illegible] constitutione [illegible] naturali [illegible] constitutione [illegible]
[illegible] sonoro corpore [illegible] afficiatur, ut sonos.
[illegible]
[illegible]
[illegible] corporum [illegible]
[illegible]
[illegible] minimum [illegible]
[illegible] corporum [illegible]
[illegible] corporum [illegible]
[illegible] videamus

[illegible] Ideas, quas habent humanae in nos [illegible] obiectorum, non
[illegible] in [illegible]
[illegible] percipere [illegible] omnibus [illegible]
[illegible] obiectum [illegible]
[illegible] primo [illegible]
[illegible] pluribus fuisset [illegible]
[illegible]

[illegible]
Obiecta [illegible] [illegible] continuo [illegible]
[illegible]
[illegible] nostri Sensus, [illegible] corpore [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

nec obstat, quod ille meus creatus [illegible] sensibus constructione [illegible]

[illegible]

[illegible] secundum [illegible] quae nos [illegible]

[illegible] major [illegible] immensos [illegible]

[illegible]

Terra enim [illegible] quae sola in [illegible] habemus, [illegible]

[illegible] objecta [illegible]

majora, et plura [illegible]

[illegible]

[illegible] nec [illegible] non [illegible]

[illegible]

[illegible] corporea necessaria et inertia [illegible]

[illegible]

1.

[illegible]

[illegible] in sole illuminandi [illegible] corpore [illegible]
[illegible] maxime [illegible]
[illegible] sensibus [illegible]
[illegible] postulare.

[illegible]
[illegible] sensibiles [illegible]
[illegible]
[illegible] diversa [illegible]
[illegible] et semper [illegible]
[illegible] sensatione [illegible]
[illegible]

[illegible]

Obj. 8. Potuit Deus animas ita condere, et animas insensibiles [illegible] animas [illegible] dare quae semper a sensibus [illegible] absolutas apparentias seu insensibilibus qualitatibus corporum [illegible] nullo modo [illegible] [illegible] quod [illegible] corporibus [illegible] corporibus non haberent [illegible]

Resp. [illegible] Deum potuisse animas condere ut volunt adversarii [illegible] esse [illegible] bonus [illegible] nostris [illegible] [illegible] requirit [illegible] causa [illegible] animae [illegible] semper et necessario sensibus [illegible] officit [illegible] quod [illegible] absolutis [illegible] apparentiis [illegible] nullo pacto [illegible] [illegible] nostra [illegible] conservandae satis [illegible] nostrae [illegible] Deo fuit [illegible] nobis [illegible] cognosceremus [illegible] [illegible] absolutas [illegible] non [illegible] modo [illegible] sufficit secundo quod [illegible] in sensibilibus qualitatibus corporum [illegible] semper et necessario permittere tamen [illegible] non necessario [illegible] testimonio [illegible] non [illegible] [illegible]

Propositio Tertia

Fide humana auctoritate plura cognoscimus

Probatur [illegible] primo [illegible] et natura [illegible] plures nullo esse [illegible] studio [illegible] [illegible] [illegible] oculis [illegible] [illegible] [illegible] omnis [illegible] [illegible] nullo [illegible] [illegible] auctoritate [illegible] [illegible] [illegible] secundo [illegible] vera [illegible] [illegible] [illegible] nos [illegible] si nulla vera [illegible] cognoscimus [illegible] humana auctoritate [illegible] [illegible] [illegible] auctoritate cognoscimus nulla [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Obj. 1. Humana auctoritas nihil [illegible] nos potest [illegible] [illegible] ratione [illegible] rationabiliter [illegible] [illegible] humana auctoritas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Verum experientia [illegible] humana auctoritate [illegible] comparant [illegible] ratione [illegible] conse-
[illegible] [illegible] humana [illegible] auctoritate [illegible] propria [illegible] ratione [illegible]
[illegible] omnia [illegible] [illegible] [illegible] humana auctoritate
[illegible] cognitione [illegible] [illegible]
[illegible] et quae nostram superant capacitatem [illegible] non [illegible]
[illegible] quibus [illegible] ob humanam auctoritatem

[illegible] humana auctoritate narrationes [illegible] possumus, et dogmata narrationi [illegible] quibus non [illegible] et dogmata quae [illegible] nostram superant capacitatem [illegible] opposita [illegible]

[illegible] narrationes [illegible] non [illegible] [illegible] historicas et [illegible] omnia [illegible] omnibus credendum [illegible] historica auctoritate [illegible] [illegible] [illegible] historia [illegible] narrant [illegible] [illegible] [illegible] historiis [illegible] narrant [illegible] [illegible] historicam [illegible] narrationes [illegible] narrant [illegible] [illegible] narrat [illegible] [illegible] historice narrare [illegible] vero non [illegible] auctoritatem non [illegible] ratione contrario [illegible] ratione contraria [illegible] nostra [illegible] philosophica [illegible] historia [illegible] auctoritatem [illegible]

[illegible] dogmata [illegible] credamus [illegible] auctoritatem [illegible] [illegible] [illegible] credamus [illegible]

Oppositio. Humana auctoritas desumitur, vel ab omnibus, vel a pluribus, vel a paucis vel ab uno. Atqui nec ab omnibus desumpta, nec a pluribus [illegible] sufficit certitudini humanae.

Primo non ab omnibus desumpta: nam nemo consensus omnium [illegible] inter [illegible] [illegible] ad dogmata [illegible], [illegible] sunt quot capita: [illegible] vero [illegible] impossibile est [illegible] omnes, omnino homines inter [illegible] idem consensus omnium [illegible] habetur, [illegible] experimentum [illegible] [illegible] et [illegible] omnes [illegible] aliquando decepti.

Secundo non desumpta a pluribus aut paucis: nam pluribus aut paucis imponi facile potuit, plures et pauci facile [illegible] [illegible] [illegible] [illegible] scientia et [illegible] [illegible] fidem [illegible]: [illegible] plures [illegible] [illegible] conveniunt [illegible] ut aut [illegible] historiam historiae [illegible] [illegible] [illegible] habeant, aut [illegible] historiam ipsi narrant.

Tertio denique, et non ab uno [illegible] [illegible] nullus [illegible] [illegible] [illegible] et scientiam [illegible] [illegible], quae ad [illegible] historico [illegible] requiruntur [illegible] auctor facile pluribus causis [illegible] [illegible] [illegible] facile pluribus causis [illegible] decipi. Secundo, nullus historicorum est, qui aliquando deceptus non sit [illegible] [illegible] [illegible] non [illegible] [illegible] deceptus [illegible] et [illegible] [illegible] quisque [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] ut [illegible] [illegible] [illegible]

[illegible] humana auctoritas sive ab omnibus desumpta sive a pluribus [illegible] paucis sive [illegible] uno in aliquibus certitudinem [illegible] [illegible]

[illegible] primo ad auctoritatem ab omnibus desumptam quod [illegible] [illegible] [illegible] [illegible] nullo [illegible] consensus omnium [illegible] [illegible] [illegible] dogmata [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] facta plurima [illegible] [illegible] [illegible] bella [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humanorum. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnes [illegible] [illegible] [illegible] [illegible] nihil [illegible] est [illegible] [illegible] omnes [illegible] [illegible] sit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] observandum est [illegible] [illegible] omnium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] enim [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnium [illegible] [illegible] illis nonnulli dubitaverint: [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Secundo consensum omnium [illegible] [illegible], si [illegible] [illegible] [illegible] [illegible] [illegible] omnium [illegible] [illegible] [illegible] [illegible] paucis illis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impossibile [illegible] quod [illegible] omnes qui [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] facta plurima [illegible] [illegible] [illegible] [illegible] [illegible] omnium qui paucis [illegible] [illegible] [illegible] [illegible] omnium in iis [illegible] attendi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quot capita in his [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible] ut ipsis imponeremus, vero [illegible] [illegible] scientiae [illegible] non [illegible] [illegible] non [illegible] non possunt [illegible] quod [illegible] plures [illegible] non [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible] historiis [illegible]

[illegible] auctoritatis humanae [illegible]

[illegible]

[illegible]

Auctoritas omnis pendet ab auctoritate et scientia [illegible] vel [illegible] narrantis [illegible]

[illegible]

[illegible] vel ex libris [illegible] [illegible] desumi potest [illegible] in [illegible]

[illegible] aliquid [illegible]

[illegible]

Ad primum [illegible] vel narrantis [illegible] scientia [illegible]

[illegible]

[illegible]

[illegible] auctoritate [illegible]

[illegible]

[illegible]

[illegible] ex libris [illegible]

[illegible]

[illegible] a libris [illegible] aliquid [illegible]

[illegible]

[illegible]

[illegible]

Media intelligentia [illegible]

[illegible]

[illegible]

[illegible] universalia [illegible]

[illegible] particularia licet non sint necessaria, ac immutabilia [illegible]

[illegible] necessaria [illegible] particularia [illegible] immutabilia [illegible]

[illegible] universalibus [illegible] singularia [illegible]

[illegible] ergo quia ego existo [illegible]

[illegible]

[illegible] voluntas humana [illegible]

[illegible]

[illegible] non in [illegible] [illegible]

[illegible] opportet [illegible] peccati [illegible] humano [illegible]

[illegible] semper [illegible] intelligere.

[illegible] non [illegible] intellectu [illegible] contrarie [illegible]

[illegible] ratiocinamur [illegible] in [illegible] occurrunt [illegible] non [illegible] possunt.

2. [illegible] est in omni sua cognitione; ergo [illegible] humana [illegible] finita in omni sua cognitione est [illegible]

1.5 [illegible] per instantiam [illegible] est in omni sua cognitione; ergo [illegible] potentiis [illegible] in cognitionibus non [illegible] potentibus plura [illegible] obiecta [illegible] non [illegible] in omni sua cognitione non [illegible] est infinita [illegible] in omni sua cognitione non [illegible] quia [illegible] est in ratione [illegible] non [illegible] in omni sua cognitione [illegible]

3. [illegible] tertio: [illegible] variabiles, [illegible] [illegible]

[illegible] omnes [illegible] observantur [illegible] observatae [illegible] metaphysicae [illegible] particularitate [illegible] imaginis [illegible]

[illegible] Hypothesin investigamus [illegible] aliquid [illegible]

[illegible] ratio [illegible] intelligentia, sive simplex [illegible] rationes [illegible] rationem [illegible]

[illegible]

5. [illegible]

6. [illegible]

Respondeo ad primum, conscientia [illegible] quantas [illegible] esse servandos [illegible]

2. [illegible]

[illegible] moralis [illegible] divina [illegible]

7. [illegible]

[illegible]

[illegible] non [illegible] in [illegible]
[illegible] veritate [illegible] dubitare [illegible]
vel [illegible] vera esse [illegible]
[illegible] naturalis [illegible]
[illegible]
[illegible] simplicis [illegible]
[illegible] metaphysica [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] humana [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] humana auctoritate [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] vel affirmamus

[illegible] veritatis [illegible]

Reg. 4 Nihil nos in veritati [illegible]
[illegible]
[illegible]
[illegible] dubitamus [illegible]
[illegible]

Universalis [illegible] Dubitatio, non esse viam methodus scientias acquirendi

[illegible]

[illegible] uti [illegible] dubitatio [illegible]

[illegible]

[illegible]

[illegible]

30 [illegible]

[illegible]

[illegible]

[illegible]

[illegible] vocat [illegible] omnibus, ut [illegible], et [illegible]
[illegible]
[illegible]
[illegible] quae [illegible]
[illegible]

[illegible] causae [illegible] in animo nostro [illegible] in corpore, vel in [illegible]
[illegible] mentis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] doctrina

[illegible] voluntas, et [illegible] amore [illegible]
[illegible] voluntas [illegible]
[illegible]
[illegible]
[illegible] animo [illegible]
[illegible] animo [illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible] aut amore aut [illegible]
dolore, aut [illegible] veritate.

[illegible]
[illegible] contemplationes [illegible]
[illegible]

2 [illegible] studiis [illegible]
3 [illegible] et necessariis addiscendis [illegible] quibus [illegible]
[illegible]
[illegible]
[illegible] corpore [illegible]
[illegible]

[illegible]
[illegible]
[illegible]

Animal vero [illegible]
[illegible]

[illegible] causa, [illegible] corporis [illegible] corporis [illegible] naturales [illegible]
[illegible] ut [illegible] observationum, [illegible]
[illegible] continet [illegible]

[illegible] temperamenta [illegible] necessitates [illegible] necessitates [illegible]
[illegible] memoria [illegible] opprimunt [illegible]
[illegible] temperamenta [illegible]
[illegible] memoria [illegible]
[illegible]
[illegible]
[illegible] semper [illegible]
[illegible]
[illegible]
[illegible]
[illegible] corporis [illegible]
[illegible]

[illegible] efficientes [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] in errorem [illegible]
1 [illegible] corporis [illegible]
[illegible]
[illegible]
2 [illegible] temperamento [illegible] melancholico [illegible]
[illegible]
[illegible]
3 [illegible] temperamento [illegible]
[illegible]
[illegible]
4 [illegible] fantasia [illegible] fantasia
[illegible]
[illegible]
5 [illegible] corporis [illegible]
[illegible]
6 [illegible]
[illegible]
7 [illegible]
[illegible] memoriae [illegible]
[illegible]
[illegible]

[illegible] ... non [illegible] ... [illegible]

1 [illegible] ... vel [illegible] ... [illegible]

[illegible] ... [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

[illegible]

5. [illegible]

[illegible]

8. [illegible]

[illegible]

meminisse ... [illegible] quae opera nostra [illegible], ut [illegible] Baconus
Boerhaave [illegible]. [illegible] protulit plurimas [illegible] observationes et [illegible]
experimenta [illegible] experimentis [illegible]
[illegible] observationibus et [illegible]
[illegible] conclusiones, neque [illegible] non [illegible] systema [illegible]
nec animus opinione aliqua praeoccupatus videre [illegible] videatur, sed [illegible]
[illegible] conclusiones [illegible]
universales

q. [illegible] auctoritate [illegible] in [illegible], quae ad religionem pertinent; ab [illegible] humana in his, quae vel historica sunt, vel [illegible] experimentis [illegible]
[illegible] philosophus [illegible]
[illegible] rationes [illegible]

q. [illegible] humana [illegible] media sua [illegible]
[illegible] rationes [illegible]
[illegible] auctoritas divina [illegible]
ratio humana

R. [illegible] ... nostra [illegible]
[illegible]
[illegible]
[illegible]
[illegible] magnitudo mentis [illegible] ideas [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Augustinus [illegible]
[illegible]
[illegible]
[illegible]

[illegible] corporis [illegible]
[illegible]
[illegible]

[illegible] potestatem [illegible] a nobis [illegible] [illegible]

[illegible] voluptate [illegible] impressione [illegible]

[illegible] omnia [illegible] et [illegible] attentione [illegible]

[illegible] constituunt et [illegible] nemo [illegible]

[illegible] primum [illegible] voluptatibus [illegible]

[illegible] spes [illegible] simulatio [illegible]

[illegible] contemptu et similibus [illegible] attentione [illegible] studio

[illegible] nemo [illegible] [illegible]

[illegible] corporeis [illegible] res [illegible] affectiones [illegible] sensibus [illegible]

[illegible] contemplatione [illegible] attentionem [illegible]

[illegible] [illegible] rationes [illegible] omnibus [illegible] minime [illegible]

[illegible] libertate [illegible]

[illegible] rationes [illegible]

[illegible] [illegible] philosophiae [illegible]

[illegible] [illegible] ratione [illegible]

[illegible] [illegible] ratione [illegible] philosophiae [illegible]

[illegible]

[illegible] in [illegible]

[illegible] [illegible]

[illegible]

[illegible] universoque logica [illegible]

[illegible] Metaphysica [illegible]

Cum philosophia [illegible] Logica [illegible]

[illegible] physica [illegible]

[illegible] et rationes [illegible]

[illegible] possibilia [illegible]

[illegible] a nobis possunt [illegible] Metaphysica [illegible]

[illegible] physica [illegible] physica [illegible]

[illegible] et [illegible]

[illegible]

[illegible] Metaphysicae [illegible]

[illegible] Metaphysica [illegible]

[illegible] metaphysica [illegible]

[illegible] universalis [illegible]

[illegible]

[illegible] Metaphysica [illegible] studio [illegible]

[illegible] et [illegible]

[illegible] et [illegible]

[illegible] intelligibilia [illegible] contemplando [illegible]

[illegible] essentia [illegible]

[illegible] [illegible]

Metaphisicæ partes variis, a variis statuuntur, nos triam hoc universo [illegible] rerum, sic Ontologia [illegible] Pneumatologia, et Cosmologia; [illegible] [illegible] leges philosophiæ [illegible] [illegible].

[illegible] philosophiæ [illegible] ex ideis quas habent omnes, [illegible] nos [illegible] scientia contentos esse, [illegible] [illegible] humanis ideis [illegible]; quarum ambitu [illegible] [illegible] nostra cognitio [illegible] si [illegible] in philosophia proponat quæ [illegible] ambitum, et perspicientia [illegible] [illegible] [illegible] aut [illegible] ut impostor [illegible] [illegible] [illegible] necessitatem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] esse [illegible] [illegible] nostra in litteraria Republica [illegible] ambitu [illegible] et omnibus [illegible] [illegible] [illegible] [illegible].

2 Ea in eo certa [illegible] quæ aut clara intuitione, et conscientia, aut clara demonstratione [illegible] [illegible] omnibus [illegible] [illegible] [illegible] esse [illegible].

3 [illegible] principia demonstrationis [illegible] [illegible] [illegible] necessaria [illegible] demonstrationis [illegible] [illegible] [illegible] conclusione [illegible] efficiamus, ut omnis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

4 [illegible] evidentia in omnibus requiratur Geometrica [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et veritatis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] his positis

Elementorum Metaphisicæ pars prima

[illegible] Ontologia, seu Ontosophia est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Sectio Prima complectens definitiones necessarias

Caput Primum de rationibus entis Possibilis, impossibilis necessarii contingentis nihili

2 [illegible] [illegible] [illegible] quod [illegible] [illegible] possibile [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] substantia [illegible] [illegible] substantia [illegible] [illegible] per se [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in suis [illegible]

3

4 [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

5 [illegible]

[illegible] [illegible] [illegible] necessario, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] dissertatio [illegible] [illegible] [illegible] spinosæ [illegible] [illegible] [illegible]

[illegible] necessarium [illegible] contingens [illegible]

[illegible] non [illegible]

[illegible]

[illegible] non [illegible]

[illegible] non [illegible] necessario [illegible] non [illegible]

[illegible]

[illegible] non [illegible] necessario [illegible]

[illegible] necessarium [illegible]

[illegible] necessarium [illegible]

[illegible] contingens [illegible]

[illegible]

[illegible] Caput Secundum [illegible]

[illegible] ignoramus [illegible] cognoscimus [illegible]

[illegible]

[illegible] particularibus [illegible]

[illegible]

[illegible] ... caput [illegible]

Distinctione et contrariis

[illegible] mutato loco vel tempore [illegible] Distinctio [illegible] Diversitas [illegible] mutatio [illegible] 22

[illegible] ... physicum

[illegible] ... corpore [illegible] ... vocabula [illegible]

[illegible] Contraria [illegible] ... caput quartum

[illegible] et similitudine [illegible] 23

16 [illegible] compositionis [illegible] indivisibile [illegible] ... composita [illegible]

[illegible] ... compositionem [illegible] 22

[illegible]

Caput quartum

[illegible] ... ordine [illegible] ... perfectione

[illegible] ... nil esse, quo fini suo respondeat.

[illegible] non [illegible] magis, ut [illegible] [illegible]

[illegible]

22 Bonitas [illegible] est absoluta ac [illegible] artis [illegible] [illegible] Malo [illegible] [illegible] nulla [illegible]

[illegible] Bono [illegible] [illegible] malo [illegible] [illegible] [illegible] rationale [illegible]

[illegible] plurium [illegible] sive [illegible] successiva [illegible] [illegible] ordo [illegible] serie [illegible] [illegible] consolatio [illegible]

22 Pulchritudo [illegible] ordine ac [illegible] constat [illegible] in architectura, pictura [illegible] pulchritudinis [illegible]

[illegible]

[illegible] in activo [illegible] movendi [illegible] mobilibus [illegible]

[illegible] in quo [illegible] possit [illegible]

[illegible] naturales causae [illegible]

[illegible] necessario [illegible]

[illegible] providentia [illegible]

[illegible] necessario [illegible]

[illegible]

[illegible] et nihil [illegible] dicta, et habetur in iis, qui [illegible] nullum [illegible]
[illegible] [illegible] Dei [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] sive [illegible] [illegible] [illegible]
[illegible] [illegible] cognovisse [illegible] [illegible]
[illegible] [illegible] [illegible] non sine [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] sive
[illegible] universum [illegible] universale [illegible] esse [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] Ubi [illegible] [illegible]
[illegible] substantia [illegible] infinita [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
necessitate naturae [illegible] naturae [illegible] [illegible] [illegible]

Propositio prima

Ens necessarium existentiae si existit, [illegible] [illegible] immutabile simplicissimum infinite perfectum et unum

Probatur. Ens necessarium existentiae si existit [illegible] absolute [illegible] non [illegible] [illegible] ergo si existit, [illegible] [illegible] [illegible] habere potest [illegible] [illegible] habere [illegible] [illegible] [illegible] [illegible] ~~[illegible]~~ existit [illegible] simpliciter [illegible] [illegible] non [illegible] [illegible] definitione

2. Ens necessarium existentiae si existit [illegible] necessarium existere, [illegible] [illegible] [illegible] [illegible] necessarium esse [illegible] [illegible] immutabile [illegible] necessarium [illegible] [illegible] [illegible] esset non a [illegible] necessario

3. Ens necessarium existentiae si existit, est immutabile [illegible] [illegible] simplicissimum, non compositum [illegible] est natura [illegible] mutabile [illegible] [illegible] partium compositarum

4. Ens necessarium existentiae si existit est [illegible] [illegible] perfectissimum [illegible] posse [illegible] mutari [illegible] [illegible] [illegible] ens necessarium existentiae [illegible] [illegible] sufficient [illegible] infinitas [illegible] [illegible] possibilia [illegible] infinita esse [illegible] et [illegible] [illegible] [illegible]

5. [illegible] ens necessarium existentiae si existit est infinite perfectum: [illegible] [illegible] [illegible] [illegible] necessario [illegible] [illegible] [illegible] [illegible]

[illegible]

1. [illegible] necessarium existentiae [illegible] posse [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Propositio

[illegible] necessarium existentiae [illegible] [illegible] [illegible] substantia [illegible] [illegible]

3. Propositio. Ens necessarium existentiae [illegible] [illegible] [illegible] [illegible] [illegible] substantia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] necessarium [illegible] [illegible]

Praeterea ens necessarium existentiae est simplicissimum per numerum 22 [illegible] est [illegible] vera substantia [illegible] ut [illegible] subsistens [illegible] perfectissimum

Ens necessarium existentiae [illegible] est simplicissimum per numerum 23 ergo [illegible] [illegible] [illegible] substantia

ergo ens [illegible] substantia [illegible]

Propositio Tertia

21 Entia contingentia si existant [illegible] infinite perfecta et immutabilia [illegible]

Probatur: [illegible] contingentibus [illegible] quia [illegible] [illegible] [illegible] ergo [illegible] contingentia non [illegible]

22 Entia contingentia [illegible] infinite perfecta ergo [illegible] possunt [illegible]

3 [illegible] infinite perfecta [illegible] immutabilia [illegible] necessaria existentiae [illegible] necessario existentiae per numerum 21 ergo [illegible] contingentia. Igitur

Corollarium

23 [illegible] necessario existentiae [illegible] contingens [illegible] ens necessarium existentiae [illegible] perfectissimum [illegible] immutabile [illegible] [illegible] necessarium

Propositio

Si ens necessarium existentiae et contingentia existant, contingentia [illegible] ens [illegible] necessarii existentiae

22 Probatur: Ens necessarium existentiae si existit est substantia [illegible] per numerum 20 [illegible] simplicissima [illegible] perfecta per numerum 21 [illegible] qualitas [illegible] et contingens per numerum 32 ergo [illegible] contingentia [illegible]

Corollarium

24 Si [illegible] ens necessarium existentiae et entia contingentia [illegible] substantia [illegible] contingens [illegible] substantia [illegible] per numerum 31 [illegible] necessarii [illegible] per numerum 27 [illegible] substantiae [illegible] per numerum 33 [illegible] substantia [illegible] necessarii [illegible] necessario existentiae [illegible] entis [illegible] [illegible] necessario existentiae [illegible] entis [illegible]

Propositio Quinta

[illegible] contingentia [illegible]

25 [illegible] ratio sufficiens [illegible] entis contingentis, non [illegible] ratio sufficiens existentiae entis contingentis [illegible]

[illegible] sua [illegible] adeoque [illegible] non [illegible] quod repugnat [illegible] ex alio: verum hoc [illegible] contingens est, vel necessarium; si contingens [illegible] ratio sufficiens [illegible] existentiae [illegible] ratio sufficiens inquirendum et sic usque in infinitum [illegible] in absolutum [illegible] ita: [illegible] est necessarium. Ergo ratio sufficiens existentiae entis contingentis non esse nisi in ente necessario [illegible] si existit [illegible] contingens [illegible] [illegible] est ratio sufficiens existentiae [illegible] etiam [illegible] necessarium existentia.

Propositio Sexta [illegible] serie contingentia

Prob: [illegible] universi, [illegible] [illegible] [illegible] commutabilis [illegible] ex [illegible] partes [illegible] contingentia [illegible] num: 32 [illegible] existunt.

[illegible] Propositio Septima [illegible]

Prob. [illegible] serie contingentium [illegible] necessarium existentiae per num: 33: [illegible] contingentes [illegible] num 36 [illegible] necessarium existentiae: [illegible] necessarium existentiae non est [illegible] num: 29 [illegible]

1. [illegible] ratio sufficiens existentiae [illegible] existentiae [illegible] sufficiens [illegible] in nihilo.

2. [illegible] complexione [illegible] contingentium [illegible] ratio [illegible] contingentes [illegible] complexione [illegible] [illegible] contingentium [illegible] sufficientem [illegible] rationem [illegible] interna [illegible]

3. [illegible] infinita serie [illegible] contingentium [illegible] [illegible] et hoc illius [illegible] in se contineat [illegible] cujus sufficiens ratio [illegible] necessaria.

4. [illegible] in serie [illegible] contingentium [illegible] vel infinita per circulum. [illegible] [illegible] per circulum, [illegible] rationem sufficientem habebit in A [illegible] in ente necessario [illegible]

Vel [illegible] sufficiens [illegible] contingentium [illegible] in ente necessario contingentium [illegible] num: 35 [illegible] ob [illegible]

[illegible] rationem sufficientem existentiae [illegible] contingentis [illegible] esse, [illegible] rationem [illegible] sufficientem rationem habere; [illegible] rationes [illegible] per num: 20: [illegible] rationes [illegible] propositio hac ratio sufficiens existentiae [illegible] [illegible] rationis sufficientis, [illegible] rationem [illegible] rationis [illegible] sufficientis [illegible] axioma [illegible] sufficiente [illegible] ratio sufficiens existentiae entis contingentis non [illegible] nihilo [illegible] nulla esse [illegible] [illegible]

[illegible] in serie [illegible] contingentia [illegible] complexione [illegible] esse contingentem, [illegible] complexio [illegible] num 33: [illegible] contingentium [illegible] rationem sufficientem continere non poterit [illegible] complexionis existentiae sufficiens [illegible] [illegible] distributivo ad collectivum non [illegible] axioma [illegible] [illegible] in [illegible] [illegible] [illegible]

[illegible] in res [illegible] partibus [illegible] affirmarunt [illegible] 3
[illegible] homo [illegible] genus humanum esse [illegible]
[illegible] homine [illegible] homo [illegible]
[illegible] genus rationale esse. [illegible] rationalitas homini [illegible]
[illegible] natura [illegible] contingentia [illegible] contingentes [illegible]
[illegible] natura [illegible] distributive [illegible] collective [illegible]
[illegible] singula sunt contingentia [illegible] complexione [illegible]
[illegible]

[illegible] observo [illegible]
[illegible] negato [illegible] quaecunque [illegible]
[illegible] contingentium [illegible] necessarium [illegible]
[illegible] necessario [illegible] sufficiens [illegible] in parte [illegible]
esse possit, [illegible] omnia sunt contingentia. Neque in tota serie [illegible] in complexu
[illegible] contingentium [illegible] contingens [illegible] paulo ante [illegible]
[illegible] negato [illegible] necessario rationem sufficientem existentiae [illegible]
[illegible] in serie quacunque [illegible] dispositio [illegible]
rationes [illegible] in eo [illegible] Sed singulatim

[illegible] Dico eos qui negato [illegible] necessario existentiae, rationem sufficientem [illegible]
existentiae [illegible] contingentium [illegible] serie
[illegible] nullam [illegible]
[illegible] serie [illegible] in serie [illegible]
in qua sit ratio sufficiens existentiae [illegible] contingentium omnium [illegible]
[illegible] sufficiens [illegible] rationem existentiae [illegible] contingentium [illegible] Neque [illegible]
[illegible] in serie [illegible] quod omnium sufficientem rationem [illegible]
[illegible] minime [illegible]
[illegible] infinito [illegible] quod rationem in [illegible] omnium
[illegible] necessariae existentiae [illegible]
[illegible] contingentium [illegible]
[illegible] contingentium [illegible]
[illegible] homine [illegible]
[illegible] producunt [illegible] in exemplo allato [illegible] mediatis [illegible]
[illegible]
[illegible] ratio existentiae [illegible] contingentium [illegible] in [illegible]
necessario existentiae [illegible]

[illegible]

39 Oppo. 2: Ad existentiam entium contingentium non valet deduci existentia entis necessarii existentia, sive Dei. Wol. [illegible]

1. [illegible] non est [illegible] ipsa [illegible] contingentium existentia [illegible]

2. In demonstratione [illegible] cap. 33. asserimus tamquam certum ens omne vel contingens vel necessarium; deinde [illegible] posito [illegible] certum est. [illegible] Joseph Raphson in demonstratione [illegible] Londini anno 25. [illegible] Bulfinger [illegible] cap. 4. [illegible] mensis Januarii anno 13 [illegible] posse ens aliquod [illegible] necessarium, [illegible] contingens secundum juxta Epicuri [illegible] et atomos existere [illegible]

3. [illegible] ens contingens potest existere ens necessarium [illegible] necessario [illegible] potuerit ens contingens?

4. [illegible] existentia entis contingentis [illegible] demonstrationis existentiae [illegible] necessarii [illegible] existentia entis contingentis [illegible]

Resp. [illegible] non [illegible] ab existentia entium contingentium [illegible] non [illegible] existentiae entis necessarii existentiae: Wol. [illegible]

Ad 1. [illegible] entis [illegible] intellectus [illegible] quae [illegible] aliquo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] humanae contingentiae [illegible] [illegible] [illegible] [illegible] immutabile [illegible] [illegible] existere entis contingentia.

2. [illegible] [illegible] existentiae entis contingentis, [illegible] in [illegible] in alio vel in nihilo, [illegible] [illegible] [illegible] [illegible] existentiae entis contingentis [illegible] vel in alio [illegible] in nostra demonstratione [illegible] [illegible] [illegible] existere posse ens [illegible] [illegible] nobis non [illegible] [illegible] [illegible] rationis existentiae entis ipsius [illegible] juxta Epicureos [illegible] atomos [illegible] [illegible] existentiae atomorum [illegible] ratio sufficiens [illegible] [illegible] [illegible] existere.

3. [illegible] discriminis ratio: [illegible] ens necessarium [illegible] rationem sufficientem [illegible] in se ipso, [illegible] ab alio [illegible] potest existere [illegible] ens [illegible] ens contingens [illegible] rationem sufficientem suae existentiae non habeat in se ipso [illegible] ab alio, ut existat, [illegible] necessario existentiam [illegible] necessarii, [illegible] 33, [illegible] sit ipsius existentiae [illegible] [illegible] ens contingens.

[illegible] secundo; major [illegible] animadversationis [illegible] esse necessariae necessitate connexionis [illegible] [illegible] [illegible] ex falso hypothesi [illegible], consequens ergo [illegible] responsiones [illegible] [illegible] [illegible] hoc loco necessitatem connexionis [illegible] inter existentiam entis contingentis et existentiam entis necessarii [illegible] ens contingens [illegible] [illegible] rationem sufficientem suae existentiae [illegible] sine [illegible] necessario, in quo illa sufficiens ratio reperitur, [illegible] necessitatem connexionis [illegible], et ab existentia entis contingentis [illegible] existentia entis necessarii [illegible] ab existentia effectus [illegible] existentia causae. Nec repugnant [illegible] necessitatis connexionis inter existentiam entis contingentis, et existentiam entis necessarii, [illegible] entis existentiam [illegible] etiam necessario, [illegible] [illegible] entis foret, et [illegible] [illegible] existentia non [illegible] contingens [illegible] sit [illegible] [illegible] requirat [illegible] ens contingens [illegible] entis necessarii. [illegible] absolute necessaria [illegible] sit necessaria tantum in hac hypothesi existentiae entis contingentis. [illegible]:

Ad [illegible]: repugnat Deum existere [illegible].

1 [illegible] [illegible] esset [illegible] [illegible] at [illegible] Deus [illegible] [illegible] existere [illegible] [illegible] [illegible] imperfectionem

2 Repugnat ens illud existere quod [illegible] repugnantibus constat attributis [illegible] Deus [illegible] [illegible] [illegible] esse et immutabilis, immensus et simplicissimus [illegible] aeternus et indivisibilis: [illegible]

[illegible] his [illegible].

1 [illegible] [illegible] [illegible] [illegible] [illegible] rationes [illegible], quibus [illegible] [illegible]. [illegible] [illegible] nulla [illegible] [illegible] perfectionum possibilis intrinsece sit [illegible] opposita [illegible]

2 Si quae [illegible] inter essentiae Dei [illegible] [illegible], [illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] argumentum [illegible] [illegible] [illegible] habemus [illegible] [illegible] quibus Dei existentia [illegible] [illegible] [illegible] divina essentia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] Dei [illegible] Deum immensum esse simul ac indivisibilem, ac simplicissimum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Deus possit immensus esse et indivisibilis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] partes [illegible] [illegible].

Propositio [illegible]

Deus est Unus

[illegible] Deus [illegible] [illegible] [illegible] [illegible] [illegible] ens necessarium per num. 25: sed ens necessarium [illegible] unum per num. 28: ergo Deus [illegible] existit est unus.

42 Impii: ergo divinitates, ex quo natura vocabit plures esse Deos.
Imo, ne perfectius est ... divinitati convenire ... plures divinitates ... perfectius esse, et ...
... habere perfectius est quam esse ...

2 Ergo quodquid bonum est ... At ... summo bono ...

3 Deus ... summum bonum ... esse summe sui diffusivum ... ergo ... non producat, nec ... aliquid committat ... Incarnatione ... humanitate ...

Resp. ... nos minime movere ...

1 ... conditionem ... omnium ... nec ... conditione ... divideret ... pluralitatem ... cum unitas sit ... perfectionibus ... perfectio ... perfectionibus ...

2 ... bonum esse maxime in hominibus ... non esse in divinis ... omnia ... sufficientes

3 ... distinguimus ... intra et ... extra ... summe ... bonum ... Deus ... diffusionem ad intra ... communicant ... substantia ... non nova substantia ... perfectiones ... creatione ... Deus ... divinitatis ... absolute ... necessario habeat ... diffusio ... ad extra ... voluntate ... necessario ... immensum ... infinita perfectio ... Deus ... summum bonum ... summe ... diffusione ... Filio ... corpus ...

43. Ergo ... Christianorum ... in ... ostentione ... miracula ...
1 Antonius ...
2 ... Christianorum ... ad ...
3 ... confirmata ...
... miracula ... mag[illegible]
... Christum ...
... Libris ...
... Mosis, Libris ... et Vespasianus ...
... .

[illegible] [illegible] [illegible] [illegible] [illegible] ... apud Lidonem Quietem [illegible]
Verum argumenta hac Polytheismi nullo sunt usu

1 frivolo ob antiquitatem, [illegible] [illegible] [illegible] [illegible] [illegible] unitatis Dei est, [illegible] antiquior [illegible] Polytheismi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible], quia [illegible] naturae rationi contraria [illegible] sunt et in [illegible] [illegible] Polytheismo antiquiora

2 ut Dii [illegible] [illegible] [illegible] [illegible], [illegible] populi [illegible] [illegible] [illegible] [illegible] [illegible] multitudinis [illegible] [illegible] [illegible] ne [illegible] [illegible] [illegible] et immenso [illegible] [illegible] [illegible] confirmaret, [illegible] [illegible] [illegible] [illegible] gentibus [illegible] [illegible] [illegible] [illegible] illas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] minores [illegible] [illegible] [illegible] [illegible] [illegible] plures [illegible], et [illegible] Deos nominare [illegible] pluresque [illegible] [illegible] nomina [illegible] [illegible] ex diversis [illegible] [illegible] [illegible] [illegible] Seneca de beneficiis libro 4 Cap. 7. Maximus in Epistola ad Augustinum [illegible] [illegible] [illegible] [illegible] libro 6 historiae cap. 5. [illegible] [illegible] [illegible] [illegible] [illegible] Polytheismi [illegible] historias [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] Dei [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

3 [illegible] oracula nullus habuit [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lib. 6: [illegible] [illegible] [illegible] philosophi [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] habet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in dissertatione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] oracula [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a daemonibus [illegible] [illegible] [illegible] daemones [illegible] [illegible] responsa dedisse, et praesentia numinis simulop [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible], et [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et ~~[illegible]~~ miracula [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] miracula [illegible] et Apollonium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] assimulata [illegible], [illegible] miraculis [illegible] miraculis [illegible] [illegible] [illegible] Mosenius [illegible] [illegible] cap. 7 [illegible] [illegible] [illegible] [illegible] Romano [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Apollonius [illegible] ~~[illegible]~~ [illegible]

[illegible] necessarium [illegible] ratione [illegible] morbonum. [illegible] tamen [illegible]
[illegible] optime [illegible] naturali causa [illegible] summum [illegible] [illegible] tempore, [illegible]
variis morbis, vel aliae imaginationes [illegible] mirabiles [illegible], [illegible]
[illegible] non [illegible], qui [illegible] aliquando [illegible]
[illegible] sanguine [illegible]. [illegible] sic [illegible]
[illegible], et [illegible] circumveniendo [illegible] et favore [illegible]
[illegible] sibi conciliare [illegible] Daemones [illegible] [illegible] ipsis [illegible]
rationibus [illegible], [illegible] et Spationi. [illegible] Daemonum patrocinium [illegible]
[illegible] quo forte [illegible] mirabilia signa, [illegible]
[illegible], et ignem [illegible] (melius) [illegible]
[illegible] aqua [illegible]
[illegible] similem [illegible] ad [illegible] promovere [illegible]
Et aquam in cribro [illegible] continere, nec fluere, quo [illegible] et [illegible]
[illegible] describenda [illegible]. [illegible] omnipotentiae
[illegible] aut occultae naturae, artis, aut Daemonis ope, aut [illegible] miraculum
operi [illegible] [illegible] felicitatem, sed vel eadem
[illegible] virtute quae propria [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] animos [illegible]
[illegible], quod [illegible] physicas probat, Augustinus [illegible]
[illegible] 25 [illegible].

34. [illegible] necessario [illegible] duo principia summa, quorum alterum summum bonum sit, alterum summum malum: [illegible]

1. [illegible] magis et minus [illegible] summum, [illegible] magis et minus malum [illegible] summum malum.
2. Summum bonum et malum summum sunt sibi [illegible] contraria: [illegible] contraria [illegible] existentia alterius, si summum bonum existit, [illegible] summum malum.
3. In mundo [illegible] contraria [illegible] summe [illegible], a quibus illorum [illegible] existentia [illegible] sufficiens [illegible].
4. In mundo bona sunt, plurima ac plurima mala [illegible] bona principium summum bonum [illegible] mala non [illegible] principium summum malum [illegible] nulla assignari [illegible] existentia [illegible] sufficiens [illegible] Deus bonus [illegible] omne [illegible] et [illegible]:
5. [illegible] existentia [illegible] malum [illegible] principium hoc summum malum [illegible] existit [illegible] intelligere [illegible] si existit [illegible] qui [illegible] summum [illegible] potest [illegible] habeat [illegible] operationes [illegible] principii summi [illegible] quo [illegible]
6. [illegible] sibi bonum magis et minus [illegible] summum [illegible] negatione [illegible] magis et minus malum [illegible] minor privatio [illegible] magis [illegible] minus [illegible].

quae [illegible] est in [illegible] relativi, [illegible], et minus [illegible] [illegible] [illegible]
[illegible] in his majus et minus dicitur [illegible] minori [illegible] majori aut summum [illegible]
[illegible] [illegible] sicut [illegible] majus et minus [illegible]
non [illegible] [illegible] summum; [illegible] in his majus et minus [illegible] [illegible] majori [illegible]
[illegible] summum [illegible], sed [illegible] pro majori [illegible] minori [illegible] summo [illegible]
[illegible] [illegible]. Sed [illegible] malum non natura [illegible] substantia [illegible]
[illegible] ut [illegible] Manichaei [illegible] natura [illegible] boni [illegible]
[illegible] privatio [illegible], positivam substantiam, [illegible] hoc [illegible]
positivam substantiam [illegible] sit [illegible] aliquid bonum [illegible] majus et minus malum [illegible]
[illegible] majori vel minori [illegible] ad summum malum, [illegible] majus vel minus bonum consistit
in majori vel minori accessu ad summum [illegible], [illegible] consistit in majori vel minori [illegible]
ad summum [illegible], itaque [illegible] majus aut minus malum [illegible] tamen hoc non [illegible]
[illegible] privatio non [illegible] summum malum [illegible].

2 Fateor summum bonum et malum [illegible] contraria privative et negative [illegible]
[illegible] summum malum [illegible], [illegible] non sit [illegible] summus defectus a summo
bono [illegible] [illegible] contraria [illegible] summum malum [illegible]
[illegible] [illegible] contraria [illegible] alterius
contrarii [illegible] positivum [illegible] non [illegible], [illegible] negativum [illegible]
[illegible] summum bonum [illegible] summum malum.

3 [illegible] contraria non [illegible] absolute sed relative [illegible] in hoc universo,
[illegible] [illegible] non [illegible] [illegible]
[illegible] contraria in pluribus [illegible] omnes [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] contrarie [illegible], [illegible] infimo [illegible]
[illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] effectum [illegible]
[illegible] contra [illegible].

4 [illegible] in universo [illegible] substantia [illegible]
[illegible] summum [illegible] quae sit boni [illegible]
[illegible] origo [illegible] [illegible] boni [illegible]
[illegible] hoc [illegible] privatio [illegible] defectus [illegible]
[illegible] [illegible] [illegible]
[illegible] malum [illegible] in universo [illegible]
[illegible]

[illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible]
[illegible] [illegible] naturis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] non [illegible] [illegible]
[illegible] summo bono [illegible]

[illegible] et [illegible] a [illegible] non a summo aliquo principio [illegible] causa [illegible] quae [illegible] hoc [illegible] qualis est [illegible] malorum omnium, quae in universo occurrunt, causa assignanda [illegible] summum malum admitti debeat: [illegible]

7. S. [illegible] principium [illegible] summi boni [illegible] nullum omnino [illegible] malum: principium [illegible] summum [illegible] mali [illegible]. Principium summi boni [illegible] omne malum [illegible] et [illegible] possit, et non [illegible] eundem [illegible] possit et [illegible]

[illegible] adversarii principium summi [illegible] omne malum [illegible] quatenus in se [illegible] posset [illegible] malum pati non posset nec [illegible] summum bonum nil pati in se potest [illegible] nulla in Deo malitia est [illegible] principium summi boni [illegible] malum omne [illegible] non [illegible] potest aliquod [illegible] nulla in [illegible] summi [illegible]

[illegible] metaphisica [illegible] Deum non [illegible] a creaturis [illegible] metaphisicum malum [illegible] limitatio [illegible] summa [illegible] creaturis [illegible] nec [illegible] illa in [illegible] Deo [illegible] impossibilia et [illegible] non sit [illegible] potentia [illegible] omnium philosophorum [illegible]

[illegible] phisica [illegible] non [illegible] causa [illegible] principiis [illegible] mala phisica [illegible] vita [illegible] virtute [illegible] admonet nos Deus [illegible] huius vitae comodi [illegible] felicitate [illegible] in vita [illegible] bona [illegible] mala [illegible] phisica vel phisicarum [illegible]

[illegible] aliquando [illegible] mala [illegible] nulla [illegible] hoc loco [illegible] bonis [illegible] malis [illegible] non [illegible] mala [illegible] boni mala [illegible] non [illegible] mala [illegible] maxime

[illegible] agitat amaritudine efficit: talis [illegible] conscientia quae [illegible] impiis [illegible] [illegible] pigra
a [illegible] at non [illegible] quiescat · contra [illegible]
[illegible] conscientia [illegible] voluntatis [illegible]
[illegible] maxima [illegible]
[illegible] summo [illegible] bona [illegible] impiis, vel illos [illegible]
[illegible] ad virtutem [illegible] corpus [illegible] vel aliunde
[illegible] honesta [illegible] et similiter [illegible] malis [illegible]
[illegible] causis [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible]

[illegible] mala [illegible] forte [illegible]
[illegible] summa bonitate conciliantis [illegible]
[illegible] Manichaeorum [illegible]
[illegible] a malis [illegible]
[illegible]
[illegible] et [illegible]
[illegible] in [illegible]
[illegible] res plane [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] bonum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] non [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] atque universum gubernare optime, sapientissime, providentissime [illegible]

[illegible]

[illegible] quas tollere [illegible] necessarium [illegible]

[illegible]

[illegible]

[illegible] Deus [illegible] optimus, sapiens, providentissimus [illegible]

omnia quae [illegible] optima [illegible] sapientissimo et providentissimo [illegible]

[illegible] Deus [illegible] optimo, sapienti ac providentissimo [illegible]

[illegible] sapientiae [illegible] decuit posuit [illegible]

[illegible] in [illegible]

[illegible] Propositio Nona

Res quaecumque mundanae non sunt naturae attributa aut modi substantiae divinae nec fluunt ex necessitate naturae divinae; Deus non est unum idemque cum hoc universo [illegible] extensionis et cogitationis [illegible]

Prob. 1° Primo res mundanae quaecumque sunt [illegible] contingentia [illegible] per numeros 36. 39. atqui entia contingentia esse repugnat naturae attributa aut modi substantiae divinae [illegible] ergo res quaecumque mundanae non sunt [illegible] attributa aut modi substantiae divinae.

2° [illegible] res mundanae [illegible] divinae naturae essent partes, attributa aut modi divinae substantiae, omnino [illegible] essent entia immutabilia, perfecta [illegible] non contingentia [illegible] natura divina [illegible] res mundanae nec sunt partes, attributa, aut modi substantiae divinae, nec [illegible] immutabiles, aeternae [illegible] voluntatis: ergo [illegible] non fluunt ex necessitate divinae naturae.

3° Si Deus unum idemque esset cum hoc universo [illegible] necessario [illegible] Deus esset [illegible] universum [illegible] universum sive res mundanae [illegible] universitas.

4° [illegible] Deus esse [illegible] extensione et cogitatione [illegible] contra quod [illegible] pluribus [illegible] substantiis [illegible] Deus non est [illegible] extensionis et cogitationis [illegible] demonstravimus [illegible]

5° [illegible] res omnes [illegible] Deo [illegible] sunt [illegible] partes, aut modi [illegible] substantiae [illegible]

[illegible] huic difficultati facile [illegible] res [illegible]

[illegible]

[illegible]

[illegible] ... in omnibus hominibus ... [illegible]

[illegible] ... humanae mentis ... [illegible]

[illegible] ... singulari ... [illegible]

[illegible] ... mentes ad divinam ... [illegible]

[illegible] ... in omnibus ... phantasmatibus ... [illegible]

[illegible] ... humanae mentis ... [illegible]

[illegible] ... non spectat humanam mentem ... [illegible]

[illegible] ... humanae mentis ... in omnibus ... [illegible]

[illegible] ... in omnibus hominibus ... [illegible]

[illegible] ... in omnibus ... [illegible]

[illegible]

[illegible] in [illegible] deus [illegible] homine [illegible] humanae [illegible] non [illegible] mentis humanae [illegible] substantiae [illegible] partes [illegible] ergo [illegible] homine [illegible] substantia [illegible] humanae mentis [illegible] substantiae [illegible] mentis [illegible]

Tertio ubi dicis quod contingens sit id quod [illegible] pars sive [illegible] modificationes [illegible] humanae mentis [illegible] modificationes [illegible] contingentes [illegible] substantia [illegible] humanae mentis contingentes [illegible] modificationes [illegible] humanae mentis [illegible] divini intellectus [illegible] humanam [illegible] non probabile [illegible] humanae mentis [illegible] divini intellectus [illegible] necessarias [illegible] divini intellectus [illegible] Spinoza [illegible] naturam humanae mentis [illegible] Spinoza intellectus divinus [illegible] humano modo [illegible] contingens [illegible] pars [illegible] mentis.

[illegible] 2: [illegible] voluntas necessaria [illegible] intelligentia. Sed Deus necessitate naturae omnia possibilia intelligit, ergo [illegible] necessitate naturae omnia [illegible] quod Deus vult omnia necessitate naturae [illegible] omnia [illegible] divina natura [illegible] necessariam.

[illegible] humanae [illegible] intelligentiae [illegible] omnia [illegible] necessitate naturae [illegible] omnia [illegible] voluntate [illegible] omnia [illegible] necessario [illegible] homo [illegible] divina intelligentia [illegible] divinae voluntatis [illegible] substantia [illegible] contingit [illegible] omnium [illegible] perfectionis [illegible] intelligentia [illegible] voluntatis [illegible] natura necessitate [illegible] necessariam [illegible] necessarium [illegible] Spinoza [illegible] voluntatis [illegible] necessitate naturae [illegible] necessaria [illegible] essentia [illegible] Deus [illegible] naturae [illegible] necessitate [illegible] rationem [illegible] Deus [illegible] infinita bona [illegible] felicitatis [illegible] naturae [illegible] divina [illegible] necessario [illegible] divinae naturae [illegible]

quae bonum est infinitum. Itaque [illegible] Deus necessitate suae naturae non agit, [illegible] ad existentiam producere haec non [illegible] ex ipsius natura.

50 Instant tamen: [illegible] divina voluntas esse determinaverit [illegible] possibilium existentiam [illegible] necessario Deus vult, seu divina voluntas ab aeterno sese determinavit ad possibilium existentiam; ergo ab aeterno voluit Deus [illegible] possibilium existentiam.

Sed [illegible] necessario [illegible] Deus vult necessario [illegible] necessitate suppositionis sive quia immutabilis [illegible] non potest [illegible] necessitate naturae [illegible] existentiam non [illegible] voluntate [illegible]. Porro necessitas suppositionis [illegible] primae [illegible] non [illegible] efficit ut Deus [illegible] naturae voluisse ab aeterno existentiam [illegible].

51 [illegible] Deus est immensus, et [illegible] ergo [illegible] haec rerum universitas [illegible] omnia [illegible] haec universitas non possit [illegible] immensa nulla [illegible].

[illegible] materiam [illegible] ergo [illegible]

[illegible]

52 [illegible]

2 in materia idea [illegible] accessio tamen [illegible] Spinosa [illegible] habent [illegible] quod ipse tamen [illegible] attributum [illegible] [illegible] materia contraria [illegible] immobilis [illegible] immutabilis, indivisibilis, incorruptibilis, [illegible] non necesse [illegible] infinita [illegible] nobis Spinosa [illegible] propositione [illegible] corruptibilitas, divisibilitas [illegible] mutabilitas [illegible] modificationes [illegible] corpora [illegible]

[illegible] Spinosa [illegible] nomine intelligere [illegible] mundi [illegible] intelligere [illegible] [illegible] propria et realia accessio [illegible] materies [illegible] mundana [illegible] materiam [illegible] Spinosa [illegible] materiam mundana [illegible] materias [illegible] [illegible] mundana materias [illegible] [illegible] substantia [illegible] Spinosa [illegible]

[illegible] Spinosa materia [illegible] demonstratis [illegible] materia [illegible] materia [illegible] distinguit [illegible] immutabilitati [illegible] mutabilia [illegible] Spinosa [illegible] materia modificationes [illegible] modificationes [illegible] [illegible] individuali immutabili [illegible] materia [illegible] substantia [illegible] absurdum esse [illegible]

§3 [illegible] substantia unica [illegible] ergo res omnes mundanae [illegible] substantiae.

[illegible] substantia [illegible] Spinosa [illegible] [illegible] obscuriorem [illegible] rationes [illegible] Spinosa [illegible] responsione [illegible]

Propositio Decima

[illegible]

§4 Prob. [illegible] substantia [illegible] [illegible] [illegible]

Extensio et cogitatio [illegible] modificationes [illegible] substantia [illegible] extensio et cogitatio [illegible] substantia [illegible] [illegible] modificationes [illegible]

30 Spinoza [illegible] probat unius cuiusque substantiae non a pluribus [illegible] existentia [illegible] a se [illegible] et necessario [illegible] alia [illegible] at [illegible] substantiae [illegible] substantia [illegible]
[illegible] Spinoza [illegible] intellige [illegible] quod [illegible] est, et [illegible] conceptu [illegible] debeat [illegible] hypothesi [illegible] per [illegible] Spinozae [illegible] cognitione [illegible] conceptio [illegible] substantia [illegible] hypothesi [illegible] conceptione [illegible] substantia [illegible]

31 [illegible] substantia [illegible] Spinozae [illegible] Spinoza [illegible] substantia [illegible] Spinozae [illegible] rationem [illegible] Spinoza [illegible] substantia [illegible]

32 [illegible] Spinoza [illegible] substantiae [illegible] substantiae [illegible]

33 [illegible] Spinozae [illegible] conceptione [illegible] substantia [illegible] Spinozisticae definitione [illegible] substantiae [illegible]

34 [illegible] unica substantia [illegible] productione [illegible] substantia [illegible]

producentis [illegible]: at ergo si sermo sit de productione per creationem, nam substantia per [illegible], [illegible] non [illegible] sed [illegible] tamen [illegible] a substantia producente, potest [illegible] [illegible] per [illegible] esse substantia [illegible] [illegible] productionem per creationem [illegible] res mundanas [illegible] creationem [illegible] non [illegible] [illegible] [illegible]) potest [illegible] esse ab [illegible] produci

Sed addit si vera substantia ab [illegible] produceretur [illegible] esset effectus [illegible] [illegible] [illegible] [illegible] [illegible] hoc ratione, [illegible] quia inquit substantiae productae cognitio penderet a cognitione substantiae producentis [illegible] [illegible] [illegible] substantia [illegible] [illegible] ut [illegible] [illegible] ut effectus non [illegible] considerari in [illegible] [illegible] Spinosa effectus cognitio pendet a cognitione causae: non obstante [illegible] effectus prout [illegible] [illegible] [illegible] [illegible] [illegible]

Atqui addit poterimus si substantia productae cognitio penderet a cognitione substantiae producentis [illegible] non esset substantia quae per definitionem [illegible] in se esse et [illegible] [illegible]. Verum si substantiae productae cognitio [illegible] penderet a cognitione substantiae producentis, [illegible] [illegible] [illegible] [illegible] [illegible] nullo pacto potest [illegible] sine subiecto; [illegible] substantia [illegible] producta non esset substantia ut [illegible] definitio tertia Spinosae [illegible] [illegible] [illegible]. Et si substantiae productae cognitio [illegible] [illegible] a cognitione causae, [illegible] si substantia [illegible] [illegible] producta, [illegible] ut producta [illegible] [illegible] [illegible] [illegible] relatione habita ad substantiam producentem [illegible] [illegible] [illegible] Spinosa substantiam productam non esse veram substantiam [illegible] [illegible] convenit definitio tertia Spinosae modo [illegible] [illegible] [illegible]. [illegible] [illegible] cognitio effectus prout ut effectus pendeat a cognitione causae [illegible] [illegible] relationem [illegible] [illegible] nullo pacto [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cognitio [illegible] [illegible] [illegible] a cognitione [illegible] [illegible] [illegible] [illegible] non posse, [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] hypothesi producta [illegible] substantia [illegible] [illegible] [illegible] [illegible] non producta, sed in se ipsa per se [illegible] [illegible] [illegible] [illegible] [illegible] causa [illegible], uti effectus [illegible] [illegible] non [illegible] et effectus [illegible] in se ipso, [illegible] [illegible] [illegible] [illegible] [illegible] penderet a causa, [illegible] substantia [illegible] [illegible] [illegible] substantia [illegible] substantia [illegible] [illegible] [illegible] potuerunt substantiae

[illegible] contra Spinosam [illegible] definitionem [illegible] [illegible] dependentiam [illegible] [illegible] [illegible] [illegible] [illegible] Spinosa [illegible] [illegible] esse dependentia [illegible]

iam respondeo [illegible] Spinosa opponere conatur substantiae concipi per se per definitionem eius [illegible] non concipitur per aliud,
et ergo effectus non esset substantia vel [illegible] dependet ab alio. et [illegible]
[illegible] effectus [illegible] causa [illegible]
[illegible] substantia [illegible] substantia ex hypotesi [illegible]
[illegible] ergo substantia [illegible] hypotesi [illegible] non esset substantia. [illegible]
si vel levitas attendatur [illegible] in [illegible] syllogismo. [illegible]
dependere ab alio in maiore propositione [illegible] non posse nisi [illegible]
dependentiae [illegible] sive dependentia modi a subiecto. nam hoc [illegible]
dependentiae [illegible] excludit notio substantiae: in minori autem [illegible] non [illegible]
[illegible] dependere ab alio [illegible] importat dependentiam [illegible]
sive dependentiam causae ab effectu, nec dependentiam huiusmodi [illegible]
[illegible] Spinosa [illegible] utrumque [illegible]
idem in minori ac maiori propositione [illegible]. [illegible]
[illegible] non tribus tantum sed quatuor [illegible]
[illegible] substantiae demonstratur.

56. Propositio 5. plures existere substantias [illegible] eiusdem attributi, sive essentiae, contra Spinosam [illegible] atque [illegible]

At [illegible] non ait Spinosa parte prima propositione quinta [illegible] attributi [illegible]
[illegible] eadem attributa eandem habere substantiam, quare substantias eiusdem attributi non plures esse sed una tantum [illegible]

[illegible] vero, nam si plures existerent eiusdem attributi [illegible]
hoc repugnat. siquidem ait Spinosa propositione 2: Substantiae plures diversa attributa habentes nihil inter se commune habent [illegible] quaelibet debet esse per se, et per se concipi per definitionem tertiam, atqui [illegible]
[illegible] ergo una substantia diversi attributi [illegible]
[illegible] nec plures [illegible] attributi substantiae [illegible]
[illegible] Igitur

Ergo primo [illegible] Spinosa [illegible] non posse existere plures substantias eiusdem attributi, vel distinctione [illegible]
[illegible] non possunt existere plures substantiae [illegible] numero [illegible]
[illegible] attributi [illegible] plures homines [illegible] plures [illegible]
eidem speciei sive eiusdem attributi [illegible] essentiam habere [illegible]
eadem attributa [illegible] plures substantias [illegible]
non [illegible] eadem [illegible] substantia [illegible] attributa sunt eadem numero [illegible]
[illegible] eadem numero [illegible] substantiae, at plures substantiae eadem [illegible]
attributa [illegible] substantia [illegible] attributa sint [illegible]
[illegible] habebunt [illegible] et [illegible]
res substantiae [illegible] attributi non una sed plures [illegible]
[illegible] Spinosa [illegible]
[illegible] substantias eiusdem numero attributi et substantias plures eiusdem attributi esse non
posse [illegible] plures existere [illegible]
[illegible] eadem [illegible] non [illegible]

Contra responsionem hanc [illegible] Spinosa [illegible] observat [illegible] homo [illegible] modificationem [illegible] [illegible] omnes [illegible] [illegible] modificationem [illegible] [illegible] individua [illegible] modificatione [illegible] individua [illegible] attributi [illegible] modi [illegible].
Sed [illegible] individua [illegible] attributi [illegible] distinctionem [illegible] diversitate [illegible] simplicitatem [illegible] [illegible] absurdi [illegible] plures [illegible] attributi [illegible].

Sed si possunt existere substantiae plures attributi diversi [illegible] attributi [illegible] sive essentia diversa [illegible] substantiae [illegible] substantia [illegible] substantia [illegible].

Ad respondemus [illegible] substantia [illegible] ab alia diversi [illegible] attributi produci posse [illegible] Spinosa substantiae [illegible] diversi attributi [illegible] per se sive [illegible] per se sive [illegible] attributi [illegible] habere [illegible] nullam habere relationem [illegible] [illegible] ergo [illegible] substantia per se [illegible] substantias diversi attributi [illegible] nullam [illegible] diversi attributi [illegible] habere [illegible] [illegible] nullam relationem ad alteram.

Neque dicat Spinosa substantiam unam ab alia produci non posse [illegible] substantia [illegible] attributi [illegible] attributi [illegible] diversi [illegible] Spinosa [illegible] substantiam [illegible] esse in alia diversi attributi [illegible] [illegible] substantia contingatur in alia [illegible] producatur [illegible] ignorantia [illegible] Spinosa [illegible] ignorantia [illegible] non efficit [illegible] ignorantia modi [illegible] substantia [illegible] attributi diversi [illegible] substantias [illegible] attributi [illegible].
Igitur plures [illegible] substantiae [illegible] attributi diversi [illegible] existere [illegible]

Ipsa natura substantiae postulat substantiam unam tantum esse, nam, [illegible] ad naturam substantiae pertinet necessario existere (quippe ait Spinosa in propositione [illegible]) ut Substantia non possit produci ab alia, per propositionem 6: quaelibet substantia erit causa sui, id est eius essentia involvet necessario existentiam per definitionem primam. Si igitur ad naturam substantiae pertinet necessario existere, sive substantia quaelibet erit [illegible] necessario existentia, quod certe esse nequeat nisi unam etiam substantiam esse [illegible] 52

Secundo substantia quaelibet esse debet infinita: nam definitum ait Spinosa est illud, quod terminatur ab alio eiusdem naturae; sed substantia [illegible] non terminatur ab alio, ipsa enim natura cum alia substantia eiusdem naturae, sed attributi [illegible] per propositionem [illegible] ergo substantia quaelibet est infinita: sed infinitum esse nequit nisi unum ergo substantia non existit nisi una.

Cum ad primum, cum propositio haec [illegible] Spinosae ad naturam substantiae pertinet necessario existere involvat totam propositionem 6: [illegible] substantia non potest produci ab alia, cumque hanc [illegible] falsam esse [illegible] [illegible] [illegible] Spinosam [illegible] [illegible] [illegible]; quamquam cum Spinosa [illegible] liberaliter [illegible] unam substantiam non posse ab alia [illegible], quid inde concludet substantiam quamlibet esse sui causam [illegible] definitionem primam, id est ita se habet per causam sui intelligo id, cuius essentia involvit existentiam, sive id cuius natura non potest concipi nisi existens. [illegible] licet una substantia ab alia produci nequeat, [illegible] ex eo substantiae naturam concipi non posse nisi existentem. [illegible] observavit [illegible] in dissertatione de existentia Dei [illegible] Spinosa [illegible] [illegible] naturam existentiam non involvere necessario nec necessariam esse, quia tamen [illegible] quod [illegible] concipere possumus quin concipiamus existentiam. ergo cum nunc [illegible] quae res sol planetae luna sideraque [illegible] existant [illegible] abstractione [illegible] possum quin concipiantur existentia uti concipi potest [illegible] [illegible] non affirmavimus mundanorum [illegible] sive substantiarum naturam non involvere necessario existentiam sive non esse necessariam. [illegible] [illegible] sui causa, quod concipiens, [illegible] mundanae substantiae [illegible] concipi [illegible], [illegible] concipiantur existentes non erunt sui causa nec necessaria [illegible] [illegible] quae licet una substantia non possit ab altera produci, [illegible] substantiam quamlibet esse sui causam, id est necessariam, ac [illegible] tantum existere, quod contendit Spinosa.

Ad 2um [illegible] pariter argumentatio Spinosae, [illegible] ab ipsius propositione 5 per [illegible] existere plures substantias eiusdem attributi. [illegible] illa [illegible] propositio haec [illegible] falsa ut [illegible] ubi ostendimus num. 36. Sed [illegible] illud [illegible] non [illegible] Spinosa hoc in loco [illegible] [illegible] obtrudere infiniti definitionem, [illegible] infinitum illud [illegible] [illegible] non terminatur ab alio eiusdem naturae [illegible] [illegible] [illegible], et atomus Epicuri [illegible] [illegible], et [illegible] [illegible] corpora elementaria ubi sola [illegible] [illegible] sine ullo [illegible] probat Spinosa [illegible] [illegible] infinitas adeoque unam.

Sed cum Gosfelerus mundi in arce [illegible] et Spinosa [illegible] non dicit [illegible] [illegible] [illegible] non [illegible] [illegible] Gosfelerus [illegible] Spinosa [illegible] res mundanas [illegible] modificationes attributorum Dei [illegible] [illegible] non [illegible] [illegible] sed prout sunt [illegible] [illegible] non mundum hunc [illegible] [illegible] sed aeternum illum intelligibilem [illegible] [illegible] comprehendimus [illegible] immediate contineri in Deo, [illegible] [illegible] [illegible] [illegible] bus inaequalis [illegible] continentur in triangulo [illegible] [illegible] [illegible] spatio tam amplo, et extensione [illegible] nihil ab ipso non dependeat [illegible] [illegible] nihil sit nisi in Deo [illegible] [illegible] immutabiliter omnino [illegible] [illegible] [illegible] mundi [illegible] a Deo [illegible] contineri [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] inter [illegible] circuli et rectanguli [illegible] mentis diametri continetur in [illegible] [illegible] [illegible] circulo contenta [illegible] [illegible] [illegible] [illegible] ordinata [illegible] [illegible] [illegible] sic essentia mundi ab aeternitate [illegible] in Deo contenta [illegible] ab eo [illegible] [illegible] [illegible] [illegible].

Spinosa vero [illegible] pluribus in locis [illegible] [illegible] [illegible] ad Oldenburgium [illegible] [illegible] [illegible] sibi [illegible] quod [illegible] substantias creatas [illegible] esse attributa, modificationes [illegible] cum substantias plures negat [illegible] non negat res mundanas subsistere [illegible] sed tamen mundanis rebus [illegible] nomen substantiae [illegible] putat [illegible] esse [illegible] et [illegible] [illegible] [illegible].

Sed optime animadvertit [illegible] citato loco [illegible] [illegible] [illegible] spinosisticae [illegible] [illegible] [illegible] validitatem rationum [illegible] [illegible] quod hoc [illegible] [illegible] patrone scilicet Spinosa, adversarios [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] rationum [illegible] [illegible] [illegible] et quod Gosfelerum spectat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] substantiam constituat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora omnia [illegible] [illegible] [illegible] [illegible] cogitationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] dissere [illegible] [illegible] [illegible] mundum [illegible] immediate [illegible] sed Gosfelerum [illegible] et [illegible] [illegible] [illegible] [illegible] mundum hunc [illegible] [illegible] a Deo [illegible] diversum, an effectum [illegible] [illegible] [illegible] cum Deo substantia? [illegible] mundum cum Deo [illegible] [illegible] [illegible] [illegible] pagina [illegible] 103: [illegible] ergo Spinosa [illegible] [illegible] [illegible] [illegible] substantia [illegible] [illegible] esse infinitam et [illegible] omnia esse emanationes et modificationes [illegible] [illegible] mundum [illegible] [illegible] [illegible] [illegible] [illegible] subdit: [illegible] [illegible] tam amplo [illegible] pluribus [illegible] [illegible] Gosfelerus [illegible] contendit [illegible] [illegible] [illegible] [illegible] aliquo [illegible] [illegible] [illegible] [illegible] mundum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] mundum [illegible] [illegible] [illegible] mundus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] experientia rationi [illegible] mundus non [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] cum [illegible] aliosque [illegible] quadratos [illegible], et [illegible] [illegible] non formatum sed [illegible] tamen in circulo contineatur, nemo non intelligit. [illegible] hoc [illegible] aliud [illegible] probare non mundum [illegible] intelligi [illegible] [illegible] interdum quare [illegible] ad Spinosae [illegible] [illegible] quo [illegible] [illegible] reputantes [illegible] hominem qui [illegible] defendat [illegible] [illegible] 3
[illegible] sive aut [illegible] simulat

[illegible] quod ad Spinosam [illegible] spectat [illegible] philosopho plane [illegible] videri a receptis [illegible] [illegible] disputare [illegible] substantiam [illegible] [illegible] [illegible] vocabulis [illegible] [illegible] [illegible] [illegible] velit [illegible] ita [illegible] substantia et mundum hanc [illegible] [illegible] esse [illegible] substantia [illegible] sint [illegible] partes attributa [illegible] [illegible] velit [illegible] substantiam [illegible] mundum [illegible] [illegible] ita [illegible] substantiae [illegible] distincta attamen mundus [illegible] [illegible] posse [illegible] observari [illegible] si [illegible] desinat ergo nos [illegible] quod ipsius sistema non intelligamus [illegible] absurdos illos errores [illegible] [illegible] [illegible] atque intelligat [illegible] sistema [illegible] [illegible] confitetur [illegible] [illegible] [illegible] [illegible] [illegible] ambagibus libros implevit, quo [illegible] omnibus [illegible] [illegible] quid [illegible] [illegible] [illegible] evidentia [illegible] [illegible] a vero [illegible] differat [illegible] [illegible] qui [illegible] hoc [illegible] tempore [illegible] videant [illegible] [illegible] [illegible]

Sed [illegible] hoc esto [illegible] de [illegible]

Elementorum [illegible] Pars Secunda

Antionologia

[illegible] Antionologia [illegible] significationes [illegible] scientia est, quae de homine [illegible] [illegible] propria videtur. [illegible] tamen [illegible] [illegible] Metaphysicae [illegible] pertinet [illegible] tractatus de anima [illegible] [illegible] homine substantia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primo de homine [illegible] spectato [illegible] [illegible] animal [illegible] corpore. [illegible] [illegible] [illegible] [illegible] [illegible] secunda tractatio [illegible] [illegible] [illegible] [illegible] homines [illegible] [illegible] [illegible] [illegible] [illegible]

Sectio Prima. De homine [illegible] spectato

2 [illegible] [illegible] [illegible] [illegible] potissimum vero [illegible] [illegible] [illegible] homo [illegible] non aliud esse [illegible] machinam [illegible] [illegible] et [illegible] materiali substantia [illegible] [illegible] machinam [illegible] [illegible] [illegible] hominem [illegible] substantia [illegible] [illegible] hoc corpus [illegible] anima [illegible] [illegible] [illegible] cognoscimus [illegible] [illegible] [illegible] philosophi et sapientiores [illegible] descenderint [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] potest

[illegible] facere [illegible] ut [illegible] alii alia [illegible] ex [illegible] [illegible] definitio [illegible] probaverit maxime qua homo dicitur esse animal rationale, [illegible] homo [illegible] [illegible] habet unitatem esse [illegible] animal [illegible] substantiam [illegible] [illegible] principia [illegible] [illegible] esse animal rationale.

3 Sed illud maxime [illegible] philosophantium [illegible] quo pacto [illegible] anima et corpus [illegible] inter invicem uniantur [illegible] mirabiliter [illegible] operationum mutua [illegible] corpus [illegible] materiale [illegible] anima vero spiritualis [illegible] [illegible] nullo pacto [illegible] quae duae diversae substantiae [illegible] invicem [illegible] [illegible] [illegible] [illegible] modi est, [illegible] et quae invicem [illegible] dependeant ut semper utriusque operationes sibi mutuo [illegible] [illegible] harmonia. [illegible] modus quo anima et corpus uniuntur ad hominem constituendum [illegible] [illegible] hominis [illegible] est [illegible] [illegible] [illegible] philosophi [illegible] sint, quippe qui noverunt [illegible] hominis [illegible] [illegible] inquiri [illegible] modum quo anima et corpus [illegible] in homine [illegible] [illegible] operationum [illegible] animae et corporis. [illegible] inquirunt [illegible] variis rationibus explicare [illegible] variae [illegible] opiniones [illegible] [illegible] [illegible]

[illegible] id [illegible] videndum est quibus [illegible] mutua operatio [illegible] animae et corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] physice et

Primo est: ut positis quibusdam motibus in corpore certas et correspondentes perceptiones [illegible] anima habeantur. [illegible] anima non nisi [illegible] corporeum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis motibus. [illegible]

[illegible] corporisque [illegible] magis vel minus [illegible]

[illegible] et [illegible] perceptiones animae voluptatis sunt [illegible] doloris [illegible] [illegible] corporis [illegible] [illegible]

[illegible] ut positis quibusdam perceptionibus in anima certae habeantur motiones in corpore [illegible] [illegible] [illegible]

[illegible]

[illegible] hanc legibus [illegible]

[illegible] quibusdam [illegible] esse [illegible]

[illegible]

[illegible] occasione [illegible] animae [illegible] in corpore [illegible]

[illegible]

[illegible] animas et corpus [illegible]

[illegible] operationes [illegible] anima, et corpus [illegible]

[illegible]

[illegible] occasione [illegible] in corpus, et [illegible]

[illegible]

[illegible]

[illegible] in [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] anima [illegible] et [illegible]

[illegible] et corpus [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] influxus [illegible] corporibus [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] animae et corporis [illegible]

[illegible]

[illegible] a Platone [illegible]

[illegible] in homine [illegible] commercium [illegible]

[illegible]

commercium [illegible]

[illegible]

[illegible] actiones corporis in animam [illegible]

[illegible] inter animam et corpus [illegible]

[illegible]

[illegible] corporis produce[illegible] in anima [illegible] in corpore [illegible]

[illegible] libertas [illegible]

[illegible] anima [illegible]

[illegible] natura esse possit

[illegible]

[illegible] anima [illegible] corporis [illegible]

[illegible] operationes animae [illegible]

[illegible] incomodis [illegible] ob [illegible] [illegible]
[illegible] materie et corporis; [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] anime et corporis [illegible]
[illegible]
[illegible]
[illegible]
[illegible] in corpus [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

12 [illegible] de subsequentibus [illegible] [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

De Natura humanae mentis

13 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] substantia [illegible]
[illegible] non esse

[illegible]

14 Resp: [illegible]
[illegible]

[illegible]

[illegible] cogitationis [illegible]

15 Resp: [illegible]
[illegible]
[illegible] simplex [illegible]
[illegible]

4

[illegible] partes [illegible] ... unitatem; [illegible]

[illegible] Porro [illegible] in [illegible] qualibet specie et etiam in ratiocinatione [illegible]

[illegible] parte paulo [illegible] [illegible] perceptio [illegible] sunt [illegible] cogitationis simplices

[illegible] indivisibiles [illegible]

[illegible]

27 [illegible]

[illegible] et capitatio sunt attributa [illegible] indivisibilia [illegible]

[illegible]

[illegible] anche [illegible]

[illegible] un risultato [illegible] attributo [illegible]

[illegible] poiché ogni [illegible] non è altro [illegible]

[illegible] l'intelligenza [illegible] sua natura indivisibile non può esser tale, dunque in virtù di [illegible]

[illegible] indivisibile non può [illegible]

[illegible] l'intelligenza [illegible] non possono esser [illegible]

[illegible] attributum indivisibile [illegible]

[illegible] attributa [illegible] indivisibilia [illegible]

[illegible] capitatio indivisibilis [illegible] attribuere [illegible]

2 [illegible] et capitatio [illegible]

[illegible] justitia et [illegible]

[illegible]

[illegible] indivisibilia [illegible] attributa [illegible]

[illegible] attributis [illegible] posse [illegible]

[illegible]

[illegible] attributum [illegible]

[illegible]

[illegible] temporis [illegible]

[illegible]

[illegible]

[illegible] etiam substantia conveniunt [illegible] cogitationem

[illegible] substantia [illegible] cogitatio

[illegible]

[illegible]

[illegible]

quod non [illegible] in dubium revocet [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] quod [illegible] contra [illegible] [illegible]
[illegible] testes [illegible]
[illegible] [illegible]
[illegible] indivisibile [illegible] constituendi [illegible]
[illegible]
[illegible] metaphysica [illegible]
[illegible] actus cogitationis [illegible]

2d [illegible] actus cogitationes [illegible] [illegible]
[illegible] cogitationes [illegible] ex motionum corporearum [illegible]
[illegible] et statim [illegible] non [illegible] causa [illegible]
cogitationes [illegible] possunt [illegible]
[illegible] a nobis [illegible] cogitationes [illegible]
[illegible]
[illegible] corpore [illegible]
[illegible] cogitationes [illegible] [illegible]
[illegible]
[illegible] et ideam cogitationis [illegible]
[illegible] actus cogitationis [illegible]

[illegible] actus cogitationis [illegible]
[illegible] in cerebro [illegible] [illegible]
[illegible] objectis [illegible] idea [illegible]
[illegible] objectorum [illegible] secundo [illegible] motionum [illegible]
[illegible]
[illegible] non [illegible]
[illegible] omnes [illegible]
[illegible] quod [illegible]
[illegible]
[illegible]
[illegible] actus cogitationis [illegible]
[illegible] subtilissimae [illegible]
[illegible] omnes [illegible]
[illegible]
[illegible]
[illegible]

2i [illegible]
[illegible] cogitationes [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] cogitationes [illegible]
[illegible]

[illegible]

12 [illegible] cogitationis subiaceat

[illegible]

[illegible] esse [illegible] [illegible] [illegible] divisibilis [illegible] [illegible] [illegible]
[illegible] simplicia esse possunt

3 [illegible] humana [illegible] cogitare esse [illegible]
[illegible] nam

1 [illegible] nobis [illegible] esse [illegible] natura cogitationis [illegible]
[illegible] potest [illegible] convenire.

2 [illegible] corporis [illegible] cogitationum

3 [illegible] omnipotentem [illegible]
[illegible] materia [illegible]
[illegible]

Verum [illegible]
[illegible] materia [illegible]
[illegible] divisibilis [illegible]
[illegible] materia [illegible]
[illegible] adaequate [illegible]
[illegible]
[illegible] adaequata [illegible]
[illegible]
[illegible] cogitationis [illegible] adaequata [illegible] cogitationis materiae [illegible]
[illegible] humanas [illegible] esse [illegible]
[illegible] hoc [illegible] nihil [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] omnibus [illegible]
cogitationis [illegible] attributis [illegible]
[illegible] materiae [illegible]
[illegible]
[illegible] intelligat [illegible]
[illegible]
[illegible]
[illegible]
[illegible] divisibilis [illegible]
[illegible] principium cogitans [illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

Propositio Prima

Mens Humana est substantia Spiritualis

24 [illegible]

25 [illegible]

[illegible]

[illegible] mens humana [illegible] corporis [illegible]

[illegible]

Verum addunt. mens est forma corporis substantialis. ergo [illegible]

[illegible] humana est [illegible] corporis [illegible]

[illegible] substantia [illegible]

[illegible] corporis substantiale [illegible] corpore [illegible] corporis [illegible]

[illegible] corporis [illegible]

[illegible] utriusque substantia [illegible] manet et [illegible]

[illegible] mens humana est [illegible] corporis [illegible]

[illegible]

[illegible] Mens humana est [illegible]

[illegible] memoria [illegible] corporis [illegible]

[illegible] corporis [illegible]

[illegible]

[illegible] corpore [illegible]

[illegible]

[illegible] anima [illegible]

[illegible] mens [illegible]

organorum [illegible] effici [illegible] substantia [illegible]

R. [illegible] mens humana [illegible]

26 [illegible] prima pars [illegible] mens humana [illegible] operatio [illegible]

[illegible] mens humana [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] immortalis)

Probo secunda pars: mens humana [illegible] est immortalis [illegible]

[illegible]

[illegible] providentia [illegible]

[illegible]

[illegible] observa [illegible]

[illegible]

[illegible]

[illegible]

[illegible] providentia [illegible]

[illegible] immortalis [illegible] mens humana [illegible]

25. [illegible] contra primam partem [illegible] naturaliter habet [illegible]

[illegible] anima hominis habet naturaliter [illegible]

anima hominis habet [illegible] habet naturaliter

2 Mens humana [illegible] corporis [illegible] forma [illegible] substantialis [illegible] corpore [illegible]

[illegible]

[illegible]

[illegible]

3 Mens humana [illegible]

non moriatur

4 [illegible] corporis [illegible] corpore [illegible]

[illegible]

5 Mens humana [illegible]

[illegible]

6 [illegible]

[illegible] anima hominis habet [illegible]

[illegible] humana mens [illegible]

[illegible]

[illegible]

[illegible] naturaliter [illegible]

Jam vero [illegible] anime [illegible] primary [illegible]

[illegible]

[illegible] mentem nostram [illegible] corpore [illegible] corpore [illegible]

[illegible] partes [illegible]

[illegible] corporis [illegible]

[illegible] corporis [illegible]

[illegible] mens humana [illegible] non [illegible]

[illegible] forma [illegible] non [illegible]

[illegible] mens humana [illegible]

[illegible] addere [illegible] enim [illegible]

[illegible] corporis [illegible] anima [illegible]

[illegible] moveri [illegible]

[illegible] functionibus [illegible] anima [illegible]

[illegible] anima [illegible] morte corporis [illegible]

[illegible] humanam mentem [illegible]

[illegible] substantia [illegible]

[illegible] in animo [illegible] passiones [illegible]

[illegible]

[illegible]

[illegible]

[illegible] mens humana [illegible] substantia [illegible]

[illegible] humanam mentem [illegible]

[illegible] substantiam [illegible] corpore [illegible]

[illegible] corpore [illegible]

[illegible] substantia [illegible]

[illegible] accidentia [illegible] mens [illegible]

[illegible]

[illegible]

[illegible]

[illegible] anima [illegible]

[illegible] vita [illegible]

2. [illegible] hominibus [illegible]

[illegible]

3. [illegible] hominum [illegible] separata [illegible]

[illegible]

[illegible] mentes [illegible]

[illegible]

[illegible] animos [illegible]

[illegible]

[illegible]

Verum haec minime obstant [illegible]

Ad prim: Quamvis non [illegible] [illegible] ratione [illegible]

[illegible]

Ad 2 [illegible]

[illegible]

1. [illegible]

[illegible] si non [illegible]

[illegible]

[illegible] valetudinis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] quod [illegible]

[illegible]

[illegible] anima [illegible] vita [illegible]

[illegible] ad [illegible] observo illud [illegible] [illegible]

[illegible] at memoriis inclinationibus [illegible] ... corpora [illegible]

[illegible]

[illegible] inclinationibus [illegible]

[illegible] in altera vita [illegible]

[illegible] corpore non vivere

[illegible] non [illegible] a corpore non potest [illegible]

[illegible]

De facultatibus humanae mentis

[illegible]

[illegible] in corpore [illegible]

[illegible]

[illegible] experimur enim plures nos ipsis [illegible] nos sentire [illegible]

[illegible] externa [illegible] objecta [illegible]

[illegible]

[illegible]

[illegible] nec simplex nec intima [illegible] [illegible]

[illegible]

[illegible] non [illegible] [illegible]

[illegible]

[illegible] notum [illegible] simplex [illegible]

[illegible]

[illegible] anima [illegible] potest [illegible] simul [illegible]

[illegible]

[illegible] in [illegible] nam in [illegible] intelligi [illegible]

[illegible] simplex [illegible]

[illegible]

[illegible] ... possunt [illegible]

[illegible] ... sensationes in anima [illegible]

3 [illegible] ... in homine [illegible]

[illegible] ... sensationes in anima non esse nisi [illegible]

[illegible] ... sensationis [illegible] doloris qui [illegible] carie ... convulsione corporis.

2 [illegible]

[illegible] hoc [illegible] :nam

1. [illegible] ... sensationum [illegible] ... sensatio [illegible] ... [illegible] in sensatione doloris [illegible]

2. [illegible]

3. [illegible]

[illegible] sensationi motus in arteriis ... [illegible]

[illegible] ... hominis [illegible]

[illegible] enim ad experimentum [illegible]

[illegible]

[illegible] compressio [illegible] occupabat caligo. [illegible]

[illegible] compressione [illegible]

[illegible]

[illegible]

[illegible] communicare [illegible]

[illegible]

[illegible]

[illegible]

[illegible] interiori [illegible]

[illegible]

At vero [illegible]

[illegible] ab objectis [illegible] cerebro non communicant [illegible]

[illegible]

[illegible]

[illegible] in corpore [illegible]

[illegible] cerebro communicari.

33. In [illegible] cerebro [illegible]

[illegible]

[illegible] corpo, [illegible]

[illegible]

[illegible] cerebro [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] cerebro nobis [illegible] corpore [illegible]

[illegible]

[illegible]

[illegible] corpus [illegible] in cerebro [illegible]

[illegible] cerebro [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] illius [illegible] cerebro [illegible] animalium [illegible]

[illegible]

[illegible] in cavis [illegible] pars [illegible]

[illegible]

[illegible] plantae [illegible] in [illegible]

[illegible]

[illegible] omnino sunt [illegible]

[illegible]

[illegible] propositionis [illegible] nulla naturae generatio, nisi [illegible]

[illegible]

[illegible] cerebro [illegible] plura possunt [illegible] alia enim [illegible] primo [illegible]

[illegible]

[illegible] vices [illegible] alia [illegible]

[illegible] vel [illegible] ubi [illegible]

non [illegible] erat [illegible] prima, [illegible] ubi [illegible] et in plerisque [illegible] cerebro [illegible]

[illegible]

[illegible]

[illegible] consumptis [illegible] ubi [illegible]

[illegible]

[illegible]

[illegible] cerebro [illegible] in [illegible] animalibus [illegible] cerebri [illegible]

[illegible] in [illegible], et animalibus [illegible] observationes [illegible]

[illegible] et [illegible] quibus [illegible] animalia [illegible]

[illegible]

[illegible] illius [illegible]

[illegible]

[illegible] aut [illegible]

[illegible] propter [illegible]

[illegible] non [illegible] ut [illegible]

[illegible] partibus [illegible] [illegible] vivant [illegible]

[illegible] sentire possint quae cerebro non separatae [illegible]

[illegible] non [illegible] capitis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] in cerebro [illegible]

[illegible]

[illegible] vero [illegible]

[illegible]

[illegible] ut [illegible]

[illegible] motus [illegible]

[illegible]

[illegible]

[illegible] non [illegible] brachio et cerebro [illegible] in his [illegible]

[illegible]

[illegible] doloris causa est; [illegible]

[illegible] cerebro [illegible] per [illegible] laesionem [illegible]

[illegible]

[illegible] si contingat [illegible] impressionem fieri [illegible]

[illegible] brachii [illegible] nervus [illegible]

[illegible] in brachio et cerebro [illegible]

[illegible]

[illegible] animalium spirituum [illegible] apparent [illegible]

[illegible] ut [illegible] impressionem [illegible]

[illegible]

[illegible] nam anatomicorum observationibus constat [illegible] corporis partes [illegible]

[illegible] in cerebro [illegible]

[illegible] moveantur [illegible]

[illegible] corporis partibus [illegible] sensationes

[illegible]

[illegible] nec [illegible] ita [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] cerebro [illegible]

[illegible] partibus [illegible]

[illegible] in his partibus [illegible] cerebro [illegible]

[illegible]

n primis prova hoc loco sequente adversarii, ut argumenta diluant in [illegible]

[illegible]

sit animalium spiritum refusus, et vel Spiritu ipsi impressionis a nervis [illegible]

[illegible] si is forte quod adversarii contendunt, etiam spiritibus [illegible]

[illegible] si [illegible] cum [illegible] et locus [illegible], ut [illegible] utramque [illegible]

[illegible] spiritus [illegible] tempus, [illegible] nervorum partes [illegible] non [illegible] et tamen nullo [illegible]

[illegible]

[illegible] vero [illegible] non [illegible], non [illegible] alteri [illegible]

[illegible] sensationes [illegible]

[illegible]

[illegible] spiritus animalium [illegible] et communicatione cum cerebro [illegible]

[illegible]

[illegible]

[illegible] circa quas intellectus operatur

[illegible]

[illegible] ... ut hoc loco explicarem.

(·) [illegible]

43 [illegible] ... inquisitio [illegible] ... habeat, [illegible] ... et celebrioribus [illegible] sit.

Propositio Prima

Ideae [illegible] quidem primae sive adventitiae proveniunt [illegible] a sensibus

44 [illegible]

45 [illegible]

[illegible] parte 3 [illegible] [illegible]

[illegible] verbo [illegible]

[illegible] possunt sibi [illegible] ideas [illegible] obiectis [illegible]

[illegible] ideas primas [illegible]

[illegible]

[illegible] non obstante [illegible]

[illegible] in mente ideae [illegible]

[illegible] causa [illegible]

[illegible] causa [illegible] causa [illegible]

[illegible] ideas [illegible] causa [illegible] non [illegible] causa [illegible]

[illegible]

[illegible] ideas [illegible]

[illegible] causa, [illegible] mentis [illegible]

[illegible] intimo [illegible], et [illegible] possint [illegible]

[illegible]

[illegible] posterioris causae [illegible]

[illegible]

[illegible] in his [illegible] ideas primas [illegible]

[illegible]

[illegible] quae non sunt [illegible]

[illegible]

[illegible]

[illegible] oculis [illegible] primo provenient ab imaginibus quas sensibiles [illegible]

[illegible] forma [illegible]

[illegible] quam [illegible] occupant imagines [illegible]

[illegible] sensatione [illegible]

[illegible]

[illegible] adversarii opponunt ideas primas provenire ab imaginibus [illegible] ergo quae [illegible]

[illegible] an quia imagines ipsae [illegible] an quia imagines sint causae [illegible]

[illegible] pugnat: et quia [illegible]

[illegible] primo imagines [illegible] materiales et corpora [illegible] intra spiritualem animam [illegible]

[illegible] ut illas intra se anima percipiat [illegible] imaginibus [illegible]

[illegible] non [illegible] imaginem [illegible] corporis [illegible] in quibus

[illegible]

[illegible] imagines in [illegible]

[illegible] imaginibus [illegible] corporeae [illegible] porro [illegible] hic [illegible]

[illegible] materiale [illegible]

[illegible] objectis [illegible] imagines quas in sensibus [illegible]

[illegible]

[illegible] imaginis [illegible] et necessario [illegible] ideas [illegible]

[illegible] imaginibus [illegible] de imaginibus [illegible]

[illegible] imaginem [illegible]

[illegible] quia imagines ipsae sunt [illegible]

[illegible] non proveniat [illegible] ab imaginibus

[illegible] ab oculo [illegible]

[illegible]

[illegible]

[illegible]

[illegible] sunt [illegible]

[illegible] de pictura minima [illegible] proxima [illegible] quo pacto imagines [illegible]

[illegible]

[illegible] imago objecti in [illegible] ab oculo distantia [illegible] dupla [illegible] imagine [illegible]

[illegible]

[illegible] imaginationis in utraque distantia [illegible]

[illegible] imaginationem [illegible]

[illegible]

[illegible] in distantia [illegible] imago [illegible] sit [illegible]

[illegible]

[illegible]

[illegible] in [illegible] non [illegible]

[illegible] 25. Ita videmus et ignes apparentes [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in partibus [illegible]
vel [illegible] in partibus [illegible]
[illegible]
[illegible] propagatur ab invisibilibus in retina [illegible]
[illegible]
[illegible] continet [illegible]

Disputatio Secunda

... Dari sunt mentis innata

[illegible] primo ideæ ... innatæ ... essent semper ... spiritui ... [illegible]

... [illegible] ... experientia ... Ergo

[illegible]

[illegible]

2 Scientia ... naturalis: ergo ideæ ... [illegible]

[illegible]

[illegible]

Ad 3. Dico [illegible] nullis mentis [illegible]

[illegible]

[illegible] ideas [illegible] innatis [illegible] potest [illegible]

[illegible]

[illegible] principia mentis [illegible] ideis innatis [illegible] Dei [illegible]

[illegible]

[illegible] Deus [illegible] in cordis [illegible]

[illegible]

5o. [illegible]

[illegible]

[illegible] acquisitis [illegible]

[illegible]

[illegible] ... spirituum.

1.° 2 [illegible] non [illegible] ... facile, vel ab aliena instructione vel per naturalem contemplationem, a qua [illegible] ... [illegible] praejudicia non advertentes [illegible] naturalem [illegible] ... quos videamus [illegible] habent [illegible].

Praeterea Tertia [illegible] Principia [illegible]

Prop. [illegible] Prima Principia sive Theorica sive Practica sunt [illegible] ... [illegible] prima principia [illegible] ... [illegible] ... [illegible] principia [illegible] ... [illegible]

5.° [illegible] ... [illegible]

[illegible] ... principia [illegible] ... [illegible]

[illegible]

1.° [illegible] principia [illegible] ... [illegible] principia [illegible] ... [illegible] ... principia [illegible] ... [illegible]

[illegible] ... principia [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible] ... [illegible]

§ 3 [illegible] prima principia [illegible]

Primo etiam [illegible] proponemus.

[illegible]

3. [illegible] et [illegible] [illegible] [illegible]

4. [illegible] principia [illegible] [illegible] [illegible]

[illegible] diversarum principia prima [illegible] esse [illegible]

[illegible]

[illegible] principia [illegible] statim [illegible] [illegible] quia necesse sit, ut ea omnibus [illegible] innata [illegible] primo [illegible] principia [illegible] esse [illegible] [illegible]

[illegible] ratione [illegible] exemplis [illegible]

[illegible] principia [illegible]

[illegible] principia [illegible] innata [illegible] principia haec non sint innata. [illegible]

[illegible] philosopho [illegible] natura [illegible] [illegible]

[illegible]

[illegible] esse [illegible] [illegible]

55. [illegible] libros [illegible]

[illegible] leges naturae [illegible]
[illegible] leges naturae [illegible]
[illegible] illa [illegible]

[illegible] leges naturales [illegible] assignare [illegible]
[illegible] esse posse naturale [illegible]
[illegible] immediate assignatur Deus [illegible]

[illegible] in primis [illegible]
[illegible] naturale [illegible] naturale [illegible]
[illegible] naturale [illegible]
[illegible] non potest [illegible]
[illegible] aliquid supernaturale ordinariè. [illegible] Philosophi [illegible]
[illegible] miracula [illegible]
[illegible]

[illegible] Deo [illegible]
[illegible] humanae [illegible]
[illegible]
[illegible] mentibus [illegible]
[illegible]
[illegible]
[illegible] omnia [illegible] modo [illegible]
[illegible]
[illegible]
[illegible] in se [illegible]

[illegible] omnia [illegible] propter [illegible]
[illegible] immediatum objectum [illegible]
[illegible] Deus esse objectum [illegible] quia in ipso [illegible]
[illegible]

[illegible]
[illegible]
[illegible] in Deo [illegible]
[illegible] in Deo [illegible] nihil possessio [illegible]
[illegible]
[illegible]
[illegible]
[illegible] in se [illegible] in aliis [illegible]
[illegible] in aliis [illegible]
[illegible]
[illegible] applicari posse [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] sistema [illegible]

[illegible]

[illegible]

[illegible]

[illegible] intelligere [illegible]

[illegible] origine [illegible]

Propositio [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... Deo [illegible] ... ordine [illegible]

[illegible] ... cognoscenda [illegible] ... productionem [illegible] ... supponere [illegible] ... materiales [illegible]

[illegible] ... impressiones [illegible] ... materialibus [illegible] ... producere [illegible]

[illegible]

[illegible] ... effective [illegible] ... immaterialitas [illegible]

[illegible]

[illegible] producere

[illegible] ... experientia [illegible]

[illegible] ... in [illegible] operationem, conversationem ... primo actu vis producendi [illegible]

[illegible] ... notio quae indicat humanam mentem [illegible]

[illegible] ... a Deo [illegible]

[illegible] ... vis producendi [illegible]

[illegible] ... productio [illegible] ... explicatione [illegible]

[illegible] ... producere [illegible] ... creatio [illegible] ... imposterum [illegible]

[illegible] ... Maximanche [illegible]

[illegible] ... humanae mentis [illegible]

[illegible] ... simplex [illegible]

[illegible] ... mentis [illegible] ... participatione [illegible]

[illegible] ... sunt [illegible] ... creatio [illegible]

[illegible] ... a Deo habeant creationem et conservationem [illegible]

[illegible] ... vis producendi [illegible] ... possit [illegible]

humanae [illegible]

[illegible]

[illegible] ... sunt [illegible] ... mentis [illegible]

[illegible] ... producere [illegible]

[illegible] ... corporis [illegible]

[illegible]

[illegible] ... creationis [illegible] ... notione [illegible]

[illegible] ... creatione [illegible]

[illegible]

[illegible] ... producere [illegible]

[illegible]

[illegible] ... non [illegible]

[illegible] ... creatio non est [illegible]

vim postulabit infinitam.

[illegible] ... producere [illegible]

[illegible] ... in loco [illegible]

[illegible] ... necessariam [illegible]

[illegible] ... repugnantia

[illegible] nos moveri [illegible] [illegible] quando [illegible] [illegible] spirituales [illegible] impressionibus corporis [illegible] contra nos [illegible] materialis [illegible] [illegible] ipsa [illegible] [illegible] impressiones [illegible] materiales [illegible] mentis [illegible] modificationem [illegible]

Propositio Sexta [illegible]

[illegible] [illegible] in [illegible] [illegible]

[illegible] [illegible] [illegible] omnes [illegible] [illegible] produ[illegible] omnes [illegible] ad [illegible] modificationes mentis

[illegible] secundas

1. [illegible] motu [illegible] [illegible] materiales [illegible] [illegible] [illegible]

[illegible] secundas [illegible] [illegible]

[illegible] universalis [illegible]

2. [illegible] universalis [illegible] substantia

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

3. [illegible] [illegible] [illegible] principium [illegible] [illegible]

1 [illegible] etiam Dei [illegible] [illegible] facile [illegible] sibi mens [illegible]
[illegible] causa [illegible]
[illegible]

10 Oppo: Licet humana mens [illegible] [illegible] non possit [illegible]
[illegible]
[illegible] non cognoscat mens [illegible], quod est contra hypothesim [illegible]
[illegible]
[illegible] non [illegible] imagines [illegible] producere [illegible]
[illegible]

[illegible] imagines [illegible]
[illegible] sibi acquirere, [illegible] si [illegible] imagines [illegible]

3 Si mens necessario [illegible]
[illegible]

[illegible] appetitionem [illegible] contra hypothesim [illegible]
[illegible] appetitiones aut aversationes [illegible]
[illegible]

[illegible] appetitionem et aversationem [illegible]
[illegible]

[illegible] sibi [illegible] aut aversationes, et [illegible] sibi [illegible] mens [illegible]
[illegible] appetitiones aut aversationes [illegible]
[illegible] sibi mens [illegible]
[illegible]

[illegible]

[illegible] non posse [illegible]

[illegible]

[illegible]

[illegible] argumentum [illegible]

[illegible] non cognoscit [illegible]

[illegible] non novit [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] intelligi non posse [illegible] [illegible]

[illegible]

[illegible] quod spectat, [illegible] in Cartesiani [illegible] Malebranchiani [illegible]

[illegible] non autem [illegible]

[illegible] sufficientem rationem, ut in nostro [illegible] aliter [illegible]

[illegible] in mente, et [illegible]

[illegible] electionem rationem [illegible] sufficientem rationem [illegible]

[illegible] actione corporis in mentem et [illegible] materialibus; [illegible]

[illegible] impressionibus [illegible] assignari posse [illegible]

[illegible] in mente [illegible] habere [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] colores [illegible] ideae [illegible] [illegible]

[illegible] colores [illegible] habent [illegible] [illegible]

5. [illegible] ideae [illegible]

[illegible] simplex [illegible] [illegible]

[illegible] idea [illegible] a primis [illegible]

Idea [illegible] contraria [illegible]

Idea Dei [illegible]

[illegible] a primis [illegible]

[illegible] una est eadem [illegible]

[illegible] idea [illegible] entis [illegible]

[illegible] applicari

[illegible]

[illegible] omnibus communia sunt [illegible] in omnibus [illegible]

[illegible] communia omnibus [illegible]

[illegible] humanorum [illegible]

[illegible] constantissima [illegible] natura [illegible]

[illegible] substantia [illegible] pulcherrima [illegible]

[illegible] sunt eadem [illegible]

[illegible] constantes et invariabiles [illegible] natura [illegible]

[illegible]

[illegible]

[illegible] in omnibus est et similis in omnibus [illegible] est [illegible]

[illegible]; at non qui illud essentiali corporis structura, aut [illegible]

[illegible] affectibus, [illegible] voluptate, ac dolore [illegible]

[illegible]

[illegible]

[illegible]

[illegible] natura [illegible]

[illegible] primo homines [illegible]

[illegible]

[illegible] communes et communes secundo homines [illegible] natura [illegible]

[illegible]

[illegible] sunt omnibus communes [illegible]

[illegible] omnibus, ac in [illegible] similes [illegible]

[illegible] haec tollatur penitus est observandum [illegible] habet [illegible] positivum [illegible]

[illegible]

[illegible]

[illegible] ut illud [illegible]

[illegible]

[illegible] est [illegible] humanis [illegible] esse [illegible]

[illegible]

[illegible] ratione [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] humanis mentibus [illegible]

Ad [illegible] mente [illegible] colligat [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] primas [illegible] ideas non [illegible]

[illegible]

et primo generaliter rerum causam, secundo per [illegible] omnes creaturarum [illegible] in particularibus [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible], quod [illegible] longe a creaturarum perfectionibus [illegible], licet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] perfectionis [illegible] [illegible] [illegible] similitudinem et [illegible] ut a creaturis [illegible] [illegible] [illegible] facile possit, ut ex dictis colligitur [illegible].

Propositio Septima

[illegible] cognitiones omnes sive particulares sive generales et prima princ[ipia] [illegible]

60 Probatur [illegible] [illegible] mens [illegible] [illegible] sibi ideas [illegible] A, et [illegible] B, ideas ipsas contemplans [illegible] agnoscet totum B maius esse parte A; [illegible] [illegible] ideas ipsas accuratius comparans se [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] maiore [illegible] [illegible] [illegible] generale principium [illegible] totum esse maius sua parte [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aliis hominibus [illegible] [illegible] [illegible] [illegible] aliis hominibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aliis hominibus quare [illegible] veritatum, ac principiorum moralium cognitionum [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] intelliget [illegible] sibi comparabit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quare [illegible] [illegible] [illegible]

63 At [illegible], scientias et prima principia [illegible] esse in omnibus [illegible] si ab iisdem deducuntur per [illegible] [illegible], ac [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] diversa.

Verum [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] plures [illegible], scientias et prima principia [illegible] diversa in pluribus esse, [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] scientias et prima principia [illegible] posse in omnibus [illegible] omnibusque communia [illegible] [illegible] [illegible] [illegible] ab iisdem deducantur [illegible] idem, plures [illegible] primum [illegible] [illegible] [illegible] in omnibus [illegible] communes sunt, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] veritates, prima principia scientiasque [illegible], [illegible] [illegible] [illegible].

A. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Respondeo dividendam quaestionem [illegible] [illegible] [illegible] secunda [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], ac [illegible] ab [illegible] [illegible] [illegible] [illegible] meditationis [illegible], et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] experientia, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] respondere [illegible] [illegible], meditationis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] ideas [illegible] mentis [illegible] [illegible] meditatione [illegible] [illegible] [illegible]

Quod autem primas ideas spectat [illegible] robat esse [illegible] mentis, [illegible]
[illegible] primo [illegible]
[illegible] primas [illegible] ad [illegible] inter animam et corpus [illegible]
[illegible] non esse, ut alibi [illegible] quod nec ullae [illegible] sunt, [illegible]
[illegible] rationes [illegible]
[illegible]
[illegible]

55 [illegible] autem [illegible] non [illegible]
[illegible] ideae [illegible]
[illegible] imperfecta [illegible]
[illegible] cognitionem [illegible] perfectissimam [illegible]
[illegible] in [illegible] perfectione [illegible]

[illegible] cognitionem [illegible] imperfecti [illegible] cognitionibus [illegible]
[illegible]

[illegible]

[illegible] sint [illegible] species [illegible]

[illegible] cognitione [illegible]
[illegible]

Ad secundum [illegible] negativum cognoscitur per [illegible] positivi [illegible] [illegible] negativum [illegible] sed per illud cujus positiva [illegible] concipere solent [illegible] [illegible] [illegible] positivum [illegible] [illegible] numero [illegible] negative [illegible]

[illegible] negative [illegible] [illegible] a nobis cognosci solent [illegible] [illegible] quare [illegible] hoc loco non [illegible] per negationem [illegible]

[illegible] infinitum per negationem finiti.

[illegible] objectis [illegible] [illegible]

Verum quod idea [illegible] a [illegible] [illegible] [illegible] [illegible] objectivis [illegible] [illegible]

[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

Respondeo [illegible] infinitum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

49 [illegible] veritatem [illegible] opinione [illegible]
[illegible] veritatum particularium [illegible] potius particulares veritates [illegible]
[illegible]

[illegible] cognitio [illegible] cognitionis [illegible]
[illegible] et opiniones [illegible]
[illegible] particulares [illegible]
[illegible]
[illegible]
[illegible] veritates particulares dignoscerentur.

50 [illegible]
[illegible] est [illegible]
[illegible] immediate [illegible]
[illegible] et cognitiones [illegible]
[illegible] sive primas, sive secundas. Paragraphus Tertius

De humanae mentis sanitate [illegible]

51 [illegible]
[illegible]
[illegible]
[illegible]

52 [illegible] necessario [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] libertate

De libertate humana [illegible]

53 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] experientia [illegible]
[illegible] necessario [illegible]
[illegible]

[illegible]
[illegible] libertatis actionum [illegible]

[illegible] nulla esset [illegible]

[illegible]

14 [illegible]

[illegible] corpus et sibi contrarius

[illegible]

[illegible] machinæ [illegible]

[illegible]

[illegible] necessario [illegible]
[illegible] quae nos in [illegible] tamen [illegible]

[illegible] interne [illegible]
[illegible] cogitationes nostrae [illegible]
[illegible] non obstante [illegible]

[illegible] libertatis [illegible]
[illegible] mentis nostrae [illegible], ut eum [illegible] possim [illegible]
[illegible] providentia [illegible]
[illegible] et nostra [illegible]
quia tamen [illegible] illa [illegible], [illegible], et necessario [illegible]
[illegible] et similia [illegible]
[illegible], [illegible], ut [illegible] libertatis [illegible]
[illegible] menti [illegible]

[illegible] libertatis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] libertatis apparent [illegible] confusione.

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

1-3

[illegible]

[illegible] ut communis quod Philosophus [illegible]

[illegible]

[illegible] libertatis productivis; quare hoc terminos non [illegible]

[illegible] ut in universo contingant [illegible]

[illegible] omnia in universo [illegible] necessario contingere

[illegible]

[illegible] liberum non esse [illegible] si considerarentur [illegible]

[illegible] sunt non perceptiones [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] status humanae mentis [illegible]

[illegible]

[illegible] voluntas intellectum [illegible]

[illegible]

[illegible]

[illegible] sit constituta ut non [illegible] [illegible]

[illegible] bonis propriaeque felicitati convenientius

[illegible] quae felicitati [illegible] convenient [illegible]

[illegible] in hipotesi necessario vel [illegible] contra [illegible]

[illegible] experimento [illegible]

[illegible] semper felicitati propriae, ac bono particulari felicitati convenientius magis eligat, ac velit.

[illegible] solutionem [illegible]

[illegible] necessario vel remote tamen indifferenter, ut liberi, ut in exemplo dicto ac necessitate [illegible]

[illegible] fuit tantum remote indifferenter [illegible]

[illegible] voluntatis bone, vel speculative [illegible]

[illegible] particularia bona [illegible] ex pluribus particularibus [illegible]

[illegible] habeant rationem non boni [illegible] a summo bono [illegible]

[illegible] bona particularia [illegible] et bona vel ut non [illegible]

[illegible] magis [illegible] sunt magis [illegible] propriae felicitati [illegible] quod judicat magis [illegible] ex pluribus particularibus bonis [illegible] prae altero magis [illegible] [illegible] prae altero [illegible]

[illegible] moveri ac velle semper bonum, quod magis judicat, vel [illegible] ultimo, ac particulare [illegible] semper magis [illegible] determinat, vel [illegible] non [illegible]

[illegible] magis [illegible]

[illegible] in hipotesi quod necessario [illegible] a [illegible]

[illegible] ... quod communi more [illegible] ...

[illegible] ... alternative, non vero in concreto [illegible] ... in obiecto [illegible]

[illegible]

sic libertatis [illegible] intellectus indicio [illegible]

[illegible]

hominis [illegible] ... voluntas [illegible] ... experientia [illegible]

[illegible]

[illegible] ... nulla differentia est, vel saltem [illegible]

[illegible] ... realiter vel [illegible]

[illegible]

[illegible] ... necessario [illegible] ...

[illegible]

[illegible] ... necessario [illegible] ...

[illegible] ... determinationis [illegible]

[illegible]

[illegible]

[illegible] dispositiones [illegible]

[illegible] libertate sua [illegible]

[illegible] dormientibus [illegible] libertas [illegible]

[illegible]

[illegible] et [illegible] proportionem habeat, quo de [illegible] servire [illegible]

[illegible] posuit [illegible]

1. [illegible] quisque potest [illegible]

[illegible] necessario [illegible] non potest [illegible]

[illegible] dispositione [illegible] Habetur in dormientibus amentibus [illegible]

2. [illegible] libertatem [illegible]

[illegible] dispositionibus [illegible]

[illegible]

[illegible]

[illegible] dispositiones [illegible]

[illegible] dispositione [illegible]

[illegible] voluit [illegible]

[illegible] necessaria [illegible]

[illegible] dispositione [illegible] quisque [illegible]

[illegible] dispositioni [illegible]

[illegible]

[illegible]

2. [illegible] dispositionem [illegible]

[illegible]

[illegible] quisque [illegible] dispositione [illegible]

[illegible]

[illegible]

Nec valere potest pravitas dispositionis cerebri ad ingenii et stupiditatem [illegible], ut stupiditas dependeat a [illegible] [illegible], organorum, ac accurata cerebri conformatione [illegible] [illegible], in musculis [illegible] [illegible] [illegible] ingeniosi pollere, si cerebrum sint [illegible] [illegible] contra [illegible] ac [illegible] [illegible], sive a respectu [illegible], ac [illegible] [illegible] [illegible] [illegible] pollere ingenio si cerebrum [illegible] [illegible] [illegible] [illegible] [illegible] dispositione cerebri [illegible].

[illegible]

[illegible]

[illegible] humano corpore [illegible]

1. Anatomia [illegible] hominem [illegible] [illegible] necessaria videri possunt.

2. Fabrica humani corporis mirabilis [illegible] structura [illegible] ossa [illegible] alia vero [illegible]

3. Ossa [illegible] membranula [illegible] Ossa majora [illegible] medulla [illegible] massa; sed invicem distincta sunt et invicem connexa, vel immediate [illegible] vel mediate [illegible] ligamenta [illegible] sese invicem retinent.

[illegible] plerisque [illegible] in carne [illegible] fibras, [illegible]
[illegible] plerumque [illegible] tendinibus, et ligamentis

[illegible] alba [illegible] fibris [illegible]
[illegible] composita [illegible] (de quibus infra), fibrae [illegible]
[illegible] pro varia [illegible] et [illegible]
[illegible] plerumque [illegible]
[illegible] elastica [illegible]
[illegible] corporis [illegible] consequuntur

[illegible] per [illegible]
[illegible] continua [illegible] vasa [illegible]
[illegible] partes [illegible] humor [illegible] lymphaticus [illegible] diaphanus [illegible]
[illegible] globuli [illegible] sanguinem [illegible]
[illegible] sanguis [illegible] continuatur a variis arteriis [illegible] sive [illegible]
[illegible] vena, et arteria in [illegible]
[illegible] validiori [illegible] elastica [illegible]
[illegible] sanguinem [illegible] venas [illegible]
[illegible] sanguinem in cor [illegible] a corde [illegible]

[illegible] glandulisque et [illegible]
[illegible] et arteriis [illegible]
[illegible] quod [illegible]
[illegible] quae [illegible]
[illegible]
[illegible] propagines [illegible] plana [illegible]
[illegible]
[illegible] in hac parte [illegible] in serosa [illegible]
[illegible] interioribus partibus [illegible]
[illegible] differens a cuticula [illegible]
[illegible] nomen [illegible]
[illegible] quae sunt [illegible] humorem [illegible]
[illegible] humorem [illegible] expressione [illegible] partes [illegible]
[illegible] lymphatica [illegible] per ordinarias [illegible]
[illegible]
[illegible] et sudorem constituunt

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

[illegible] ... productio a pluribus habenda ... [illegible]

[illegible] ... a cerebro procedentes ... [illegible] ... membrana ... [illegible]

[illegible] ... corpore ... [illegible] ... nervis ... [illegible]

92 [illegible] ... cerebri ... posterior ... cerebellum ... [illegible]

[illegible] ... anteriores ... corporis callosi ... [illegible]

[illegible] ... ventriculis ... [illegible]

9.. [illegible] ... apparent in ventriculis ipsis quatuor ... [illegible]

[illegible] ... mamillares ... [illegible]

[illegible] ... triangularem ... [illegible]

14 [illegible] ... ventriculo ... [illegible]

[illegible] ... quartum cerebri ... [illegible]

93 Cerebri, ac cerebelli ... substantia ... [illegible]

[illegible] ... cerebri substantia ... [illegible]

[illegible] ... ingressa est ... [illegible]

[illegible] ... corporis partes desumunt [illegible] ... nervos aqua [illegible] ... spinalis, vel medulla cerebri, cerebelli ... a cerebro [illegible] nervos, pro sensationibus [illegible]

[illegible] a cerebro [illegible] nervorum ... primum [illegible] ... motus [illegible] ... in oculo [illegible] ... nervos [illegible] ... motus [illegible] ... per linguam, labia ac palatum ... musculos [illegible] ... evidenter [illegible] ... omnes in corpore producunt motus

99 [illegible] medulla vero spinali prodeunt [illegible] nervorum paria, [illegible] ... nervi [illegible] ... membranulae ac mollis et [illegible]

[illegible] Sed [illegible] nervos duo potissimum in quaestionem venire solent [illegible] ... nervos [illegible] ... in [illegible] ... nervos in [illegible] ... cerebro [illegible] ... in [illegible]

100 [illegible] ... nervorum [illegible] ... nervorum [illegible]

101 [illegible] patet [illegible]

[illegible] Spiritus [illegible] [illegible] corpore [illegible] fluidi [illegible]

[illegible] experimentis [illegible] corpore [illegible] experimentis [illegible]

[illegible] per [illegible] aspectu [illegible]

[illegible] memoria [illegible] spiritibus aut nullo aut [illegible]

[illegible]

102 [illegible]

1 [illegible] microscopio [illegible] fluidi [illegible]

[illegible]

2 [illegible] spiritus [illegible] per [illegible] poros [illegible]

[illegible] continuo spiritus [illegible]

[illegible]

[illegible] fluido [illegible] microscopio [illegible] in [illegible] corpore [illegible]

[illegible] microscopio [illegible]

[illegible] fluidum [illegible] arteria lymphatica [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] spiritus [illegible] nervis [illegible] functionibus [illegible]

[illegible] nervi [illegible] cordis [illegible]

[illegible] continuo [illegible] continuo [illegible] alembico in nervos [illegible]

[illegible] ... nec forte improbanda est sententia [illegible] contendentis [illegible] ... [illegible]

[illegible] ... hic ad vasa [illegible] ... [illegible] hoc adeo est, quare et:

203 [illegible] ... nervi continuo irradiantur in cerebro [illegible]

[illegible] ... [illegible] in cerebro ipsi nutriendo [illegible] ... Vesalius et [illegible] docent omnes nervi corporis [illegible] vasa [illegible] ... in vini distillatione si os alembici [illegible] claudatur per [illegible] ... maxime aetherei spiritus crassioribus [illegible] ... sic sanguinis particulae separatae in cerebro [illegible] ... cerebri calore et motibus [illegible] ... cavitates [illegible] medullaris cerebri [illegible] ... cerebri nutritioni inservientibus partibus in cerebro [illegible] ... residuo sanguine [illegible] cerebri [illegible]

204 [illegible] ... sanguinis [illegible] spiritus animales [illegible] ... plantarum fructuum [illegible] ... partibus [illegible] continuo particulas odore [illegible] ... [illegible] ... in cerebro spiritus animales [illegible] ... [illegible]

205 [illegible] in cerebro [illegible] spiritus animales e sanguine qui a corde [illegible]:

1. [illegible] sanguinis ad cerebrum non continuus sit sed alternus ob alternum cordis motum [illegible] ... separatio [illegible]

2. Spiritus [illegible] ... [illegible] vasa cerebri [illegible]

3. [illegible] sanguis [illegible] a corde [illegible] ... [illegible] ... cerebro separati [illegible] ... maior [illegible] in nervis [illegible] ... sanguis [illegible] ... [illegible] ... sanguinis ad cerebrum [illegible] ... spiritus [illegible] ... ob alternum sanguinis [illegible] cerebrum [illegible] spiritus [illegible] ... [illegible] sanguine [illegible] ... [illegible] ... sanguine in cerebro [illegible] ... continuo [illegible] ... si videant [illegible]

Hoc in primis pavet nostra [illegible] spiritus animales [illegible] contra motu [illegible] a sua [illegible] tum, nam nobis sufficit [illegible] [illegible] ad [illegible] vel [illegible] [illegible] ad in [illegible] vel animam [illegible] corpus [illegible] ut spiritus [illegible] particulis [illegible] per [illegible] per [illegible] poros, sunt [illegible] spiritus [illegible] animales esse non [illegible] per [illegible] per cerebri [illegible] motus a [illegible] sanguinis intransire per cerebri poros [illegible] [illegible] [illegible] cerebri [illegible] animae et [illegible] [illegible] [illegible].

106 Contra [illegible] spiritus [illegible] [illegible] in humano corpore [illegible] [illegible] [illegible] necessitate [illegible] communicatione [illegible] [illegible] organis sensoriis [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] possumus, [illegible] et motu [illegible] [illegible], [illegible] nervos [illegible] [illegible] [illegible] sane [illegible] [illegible] [illegible] dicamus

105 [illegible] [illegible] nervo omnes [illegible] [illegible] in partibus [illegible] nervus [illegible]. [illegible] [illegible] partes sine [illegible] [illegible] [illegible] communicatione [illegible] per solos nervos [illegible] immutationem [illegible] organi [illegible] immutationem [illegible] [illegible] ultimo habetur sensatio. [illegible] nervi [illegible] vel solidis [illegible] partibus [illegible] [illegible] [illegible] [illegible] [illegible] solidarum. Ergo [illegible] spirituum [illegible] at [illegible] solidis nervorum partes immutationes [illegible] organis sensoriis [illegible] ad cerebrum [illegible] vel tremore [illegible] vel oscillatione [illegible] [illegible] apparet [illegible] immutationes in externis organis sensoriis [illegible] [illegible] tremore [illegible] oscillatione [illegible] solidarum partium nervorum ad cerebrum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quia communicatio [illegible] [illegible] [illegible] ad cerebrum [illegible] [illegible] ad [illegible] partes solidae nervi [illegible] [illegible] [illegible] [illegible] oscillari et [illegible] [illegible] [illegible] [illegible] [illegible] solidae nervorum partes [illegible] tremoris nec oscillationis sunt capaces, [illegible] [illegible] [illegible] [illegible] tremores [illegible] [illegible] nes [illegible] [illegible] in [illegible] progressu, [illegible] [illegible] pendula [illegible] [illegible] [illegible] tensione [illegible] [illegible] [illegible] [illegible], ut ganglius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt tamen molles [illegible] nes, [illegible] [illegible] [illegible] [illegible] [illegible] ab omni tensione [illegible] [illegible] [illegible] [illegible], et [illegible] [illegible] [illegible] ganglius [illegible] [illegible] [illegible] [illegible] [illegible] observationibus est compertum [illegible] solidae nervorum partes [illegible] [illegible] tremoris aut oscillationis capaces [illegible] non [illegible] [illegible] tremore [illegible] [illegible] [illegible] [illegible] spiritus animalis [illegible] ad [illegible] [illegible] communicationes [illegible] externis organis sensoriis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in tota spirituum serie [illegible] [illegible] [illegible] [illegible] [illegible] vibratio, [illegible] [illegible] ad cerebrum pertingat, [illegible] [illegible] communicationem organi [illegible] [illegible]

122 At [illegible] [illegible] immutationes in externis organis sensoriis [illegible] [illegible] [illegible] [illegible] nervorum [illegible] cerebro [illegible] [illegible] [illegible] non possunt [illegible] [illegible] nervorum [illegible] redit [illegible] spirituum secretione [illegible] in [illegible] possunt sensationes [illegible] [illegible] [illegible] historiis [illegible] [illegible]

[illegible] maxime [illegible] non [illegible] [illegible] sensationes [illegible]
[illegible] per [illegible] vibrationes [illegible]
[illegible] caries [illegible]
[illegible]

3 [illegible] organa [illegible]
[illegible]

4 [illegible] membranes [illegible] sensationes [illegible]
[illegible] actione [illegible]
[illegible]

[illegible] corporis, partes [illegible] per [illegible] nervos [illegible]
[illegible] sensationes [illegible]
[illegible] propagatur [illegible] communicantur et sensatio [illegible] in digitis
[illegible] in manu [illegible] in trunco [illegible]
[illegible] sensatio [illegible] non in singulis digitis distincta [illegible]

[illegible] membranes [illegible] observandum [illegible]
[illegible] impossibile est [illegible] cerebri [illegible]
[illegible]

[illegible] cerebri pars [illegible]
[illegible] nervos [illegible] sensationes [illegible]
[illegible] ad cerebrum [illegible]
[illegible] partes corporis, quae [illegible] cerebri [illegible]

[illegible]
[illegible] sensationes [illegible] meninges [illegible] rationes [illegible]
[illegible] meninges [illegible]
[illegible] meninges [illegible]
[illegible] tremoribus aut oscillationibus [illegible]
[illegible]
[illegible]
[illegible]
[illegible] sensationes [illegible]
nervos [illegible] in his sensationibus [illegible]

[illegible] sensationem [illegible] in primo cerebro [illegible]
[illegible] meninges [illegible] cerebro [illegible]
[illegible] sensationes [illegible] sensationem [illegible]

[illegible] structurae [illegible]
[illegible] nervis [illegible] tremores, aut oscillationes [illegible]
[illegible] sensationes ad cerebrum propagari [illegible]
[illegible] spiritum [illegible]
[illegible]
[illegible] caries [illegible] aeris, et [illegible]
[illegible] caries [illegible]
[illegible] nervosum
[illegible] corpora [illegible]
originem.

R. 3 ... animales spiritus ... sensationem ... [illegible] ... nervis [illegible] ... ad cerebrum ... [illegible] ... continuo ... cerebro descendant, tamen ... contrarius ... motus ... [illegible] ... ad cerebrum ... [illegible] ... in propagatione soni ... [illegible] ... vibrationem particularum aeris ... [illegible] ... contrario ... [illegible] ... transpositio ... [illegible]

R. 4 ... ducant propagationem sensationum ad cerebrum celeri e ... motu ... animales spiritus ... a cerebro ... sono propagato ... [illegible] ... quo ... sensibilem ... propagationis soni per spatium ... vel bis ... quis credat ... spiritus ... animales ... [illegible] ... retardationem sensibilem in propagatione ... per spatium ... [illegible]

R. 4 ... habet nervi molles ... tamen aquis spiritus ... possunt ... a cerebro ... sensationem ... ad cerebrum ... nervorum ... vel ... omnes ... [illegible] ... [illegible] ... maxime ... [illegible] ... nervorum ... [illegible] ... spiritus animales ... observationem nullo ... habetur ... [illegible] ... sonum ... producitur ... [illegible]

R. 5. Argumentum hoc adversarius officit nobis nihil, nam ... nervos ... in trunco communique ... in cerebro ... nervum ... nervi ... [illegible] ... nervis compositum quippe ... nervi ... [illegible] ... nervulos ... observabit Boerhaavius ... nervi ... sensationes ... [illegible] ... unico ... trunci nervi ... omnes ... nervi vel omnium trunci nervi concussis motus ... debuerat ... [illegible] ... in sensationibus evenerit ... [illegible] ... At vero ... sensationes ... [illegible] ... motum propagare ad cerebrum possunt ... motum communicent spiritibus ... [illegible] ... nervi ... [illegible] ... affectus ... nervis ... ad cerebrum sensationes ... [illegible]

R. 6. Sensationes per animales spiritus tanta celeritate ... ad cerebrum propagari, ut ... [illegible] ... in organis ... sensationes ... [illegible] ... per motum particularum aeris ... physica propagari ad plurium ... intervallo ... [illegible] ... elasticum ... [illegible] ... transmittit motum a ... [illegible] ... propagationem ... nervorum ... [illegible] ... propagatur motus ... sonus ... sive a ... influxa, sive ... [illegible] ... nervorum ... spiritibus ... [illegible] ... retractiones ... [illegible] ... fisica propagantur.

R. 7 ... hoc ... phenomena, et similia ... explicationem ... [illegible] ... relationes ... corporis nostri ... [illegible]

[illegible] quia [illegible] spiritus [illegible]

[illegible] parte [illegible] nervis [illegible]

[illegible] spiritum [illegible]

109 [illegible] motu [illegible]

[illegible] spiritibus [illegible] nervis in musculos [illegible] experiment[illegible]

[illegible] musculi [illegible] motus [illegible]

[illegible] musculum [illegible]

[illegible] musculus [illegible] actionem [illegible] quasi [illegible]

[illegible] musculi [illegible] nervos ramos [illegible]

[illegible] musculus [illegible] spiritus [illegible] musculos [illegible] spiritus [illegible]

[illegible] motus [illegible]

110 [illegible] motus musculorum [illegible]

[illegible] anatomicos [illegible] musculo [illegible]

[illegible] musculi [illegible]

[illegible] actionem [illegible]

[illegible] fibrillis [illegible] longitudinem [illegible]

[illegible] transversim [illegible]

[illegible] in tenues cellulas et vesiculas dividat [illegible] ventrem et tendines musculi [illegible]

[illegible] quod fibrae ventris cellulas, vesiculas [illegible] habeant [illegible]

[illegible] habent [illegible]

[illegible] colori [illegible]

[illegible] apparent [illegible] non satis apud anatomicos constat [illegible]

[illegible] nervorum [illegible]

[illegible]

111 [illegible] musculi [illegible] spiritus [illegible]

[illegible] vesiculae quae in fibris ventris sunt [illegible] in forma ovali [illegible]

[illegible]

[illegible] musculi [illegible] spiritum [illegible]

[illegible] vesiculae [illegible]

[illegible]

[illegible] aqua [illegible]

[illegible] aqua [illegible]

[illegible] particulas aquae [illegible] contrahuntur

[illegible] musculorum [illegible]

112 Objicies [illegible] motus musculorum [illegible] spiritum [illegible]

[illegible] musculorum motum [illegible] musculorum [illegible] vis contractiva [illegible]

[illegible]

[illegible]

[illegible] sanguinem [illegible]
[illegible]
[illegible] non potest [illegible] contineri [illegible]
[illegible]
[illegible]
[illegible] motum [illegible] partes
[illegible] motus musculi [illegible]
[illegible]
[illegible]
[illegible] arteria [illegible] musculi [illegible]
[illegible] in magna [illegible] musculares [illegible] arteriis [illegible]
[illegible]

Verum [illegible] non [illegible]: non [illegible] musculos [illegible] et contractam [illegible] habemus [illegible] musculorum [illegible] quod [illegible] anatomicus contractio musculi [illegible] sit motor contractionis musculi, quae ab ipsius elasticitate proveniat atque [illegible] musculus in vivo animali [illegible] observantibus [illegible] omnes habeat [illegible] quo [illegible] utrumque est a statu naturali [illegible] musculi [illegible] motus [illegible] inter [illegible] musculos [illegible] notus [illegible], itaque [illegible] musculorum elastica musculares [illegible] non est [illegible].

A. [illegible] sanguinem [illegible] sanguinem [illegible] musculi [illegible] naturalis [illegible] in animali [illegible] sanguis omnis sublatus [illegible] in [illegible] ad musculum [illegible] sanguis [illegible] experimentum nobis [illegible] actionem [illegible] minimum [illegible] quod sanguis [illegible] manifeste [illegible] sanguinis actionem motui musculorum [illegible] absolute necessariam non esse, nec ab ea proxime pendere musculares motus [illegible]. [illegible]

[illegible] musculorum in statu naturali [illegible] sanguinem esse materiam a qua [illegible] animales elaborantur [illegible] musculares [illegible] possint musculos contrahere [illegible]

[illegible] sanguinem [illegible] producendo [illegible] esse, [illegible] sanguinis [illegible] in musculis [illegible] contractionem [illegible] sanguinem [illegible] in musculi arteria [illegible] sanguinis in musculos, vel [illegible] spiritui [illegible] medulla et arteriis [illegible] musculis [illegible] sanguinis [illegible]

[illegible] collectas [illegible] ex sanguine [illegible] [illegible] contendo [illegible] nec semper [illegible] quod [illegible] [illegible] quibus [illegible] musculo[illegible] [illegible] non [illegible]

3\. [illegible] motum musculorum [illegible] respondere [illegible] [illegible] sanguinis [illegible] motus musculares [illegible] [illegible] conditio habeatur [illegible] musculorum motum [illegible] corporis in statu naturali [illegible] obstante allato [illegible] argumenta

4\. [illegible] experimenta [illegible] quod [illegible] [illegible] ac a diligentissimis viris [illegible] forte in illis experimentis contigisse, [illegible] ob vehementiorem [illegible] vel ob [illegible] musculi constitutionem [illegible] [illegible] spiritibus [illegible] [illegible] motus aliquid in musculo [illegible]

229 [illegible] animi spirituum [illegible] in musculos, [illegible] motum [illegible] posse [illegible] [illegible] e corpore [illegible] tempus aliquod [illegible] vires in [illegible]

5\. [illegible] brachii musculi [illegible] movere [illegible] motu efficiente

[illegible] [illegible] motus cohaerentis, ac [illegible] motus [illegible] cordis, pulmonis [illegible] [illegible] motus [illegible] quod [illegible] motus cohaerentes

6\. [illegible] [illegible] [illegible] spiritus [illegible] motus [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motum in musculis [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] motus [illegible] in musculis [illegible] [illegible] spirituum copia, qui vel [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] in [illegible] corpore [illegible]

[illegible] 2 [illegible] Boyllii [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] spiritibus [illegible] et motus musculares [illegible] [illegible]

[illegible] ... per fibras [illegible] ... [illegible]

[illegible] ... [illegible]

alternativam, [illegible] oppositione [illegible] ... [illegible]

Ad 3 [illegible] vitales [illegible], pulmones et [illegible] in nobis [illegible] ... [illegible] ... experimenta [illegible] ... in musculis [illegible] ... [illegible] ... [illegible] ... spiritus [illegible] ... [illegible] ... alternant motus [illegible] ... in musculis [illegible] ... motusque [illegible] ... cerebro [illegible] ... spiritus animales [illegible] ... necesse [illegible] ... in sententia nostra [illegible] ... explicari possunt [illegible] ... [illegible] ... argumentis satis probabiliter demonstrata [illegible] ... [illegible] ... explicandis [illegible] ... [illegible]

[illegible] ... animalium corpus [illegible] ... nervos musculosque [illegible] ... in musculos [illegible] ... spiritus [illegible] in copia [illegible] in nervos et musculos [illegible] ... [illegible] ... motus [illegible] musculo.

[illegible] ... a cerebro [illegible] ... in musculi [illegible] ... spirituum [illegible] ... a cerebro per nervos [illegible] ... [illegible] ... [illegible] ... [illegible] nostra [illegible] explicatur [illegible] spiritus animales

2. [illegible] ad [illegible] ... animalium [illegible] ... [illegible] spiritus animales [illegible] ... copiam [illegible] ... in nervis [illegible] ... spirituum copia [illegible] ... [illegible] ... motus in musculis [illegible] ... [illegible] ... motus in musculis [illegible] ... [illegible] ... in sententia nostra explicatur [illegible]

3. Cessatio motus in musculo [illegible] ... [illegible] ... [illegible] ... motus in musculo [illegible] ... in musculis [illegible] ... [illegible] ... cessatio motus in musculo [illegible] ... motus in musculo [illegible] ... musculis [illegible] ... [illegible] ... musculis [illegible] ... [illegible] ... musculus [illegible] ... [illegible]

[illegible]

[illegible] ... spirituum copia, [illegible] ...

[illegible] ... spiritus producuntur [illegible] ...

[illegible] ... sunt Bonthy, [illegible] ... observare Borrario [illegible] ...

[illegible] ... spiritus [illegible] ...

[illegible] ... [illegible] ... motus continuos [illegible]

[illegible] ... adhuc [illegible] capitis [illegible] ... a organis sensoriis [illegible] in capite [illegible] ... ad commune sensorium [illegible] ...

[illegible] ... tres partes [illegible] ... oculi [illegible] ... in partes [illegible] media [illegible] ... continet [illegible] sive [illegible]

[illegible] ... articulo, sive annulis [illegible] cartilago [illegible] ... ossibus [illegible] ... quos [illegible] ...

[illegible] ... [illegible] ... et [illegible] corpus et [illegible] ... auditus [illegible] ... a membrana [illegible] ... [illegible] ...

[illegible] tympani

[illegible] tympanum membrana [illegible] ... tympanum appellant, quia [illegible] utraque parte membranis [illegible] ... [illegible] ... membranae [illegible] ... in tympano [illegible] ...

in [illegible] [illegible] sese [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] pellat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], et [illegible] [illegible] a [illegible] [illegible] [illegible] [illegible].

119 Est [illegible] hec auris pars [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] suos [illegible], ut [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] absolutus [illegible] [illegible] [illegible] [illegible] [illegible] auditor sive cochlea [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod singuli [illegible] forme [illegible] [illegible] [illegible] [illegible] [illegible] et consideratis in spirale [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in duos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] altera in vestibulum [illegible], altera [illegible] a membrana rotunda fenestra [illegible] [illegible] quo cochlea [illegible] cochlea [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

120 Porro a cerebro [illegible] [illegible] [illegible] [illegible] in [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vestibuli [illegible] partes [illegible] disseminatur.

121 [illegible] [illegible] descripta [illegible] partes auditui perficiendo [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exterior [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in concha [illegible] [illegible] meatus auditorius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] meatus [illegible] auditorius [illegible] [illegible] variis [illegible] [illegible] [illegible] [illegible] sonos [illegible] [illegible] [illegible] in [illegible] [illegible] membranam tympani [illegible] in [illegible] tympani [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] scala [illegible] determinatur.

122 [illegible] partes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sive recipienda, ut patet ex descripta mirabili [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nervis a cerebro [illegible] [illegible] [illegible] [illegible] docent observationes [illegible] in nervulo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

123 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tremores communicari, [illegible] [illegible] tympani [illegible]

[illegible]

[illegible] externis [illegible] [illegible]

[illegible] tempore [illegible] [illegible]

[illegible] [illegible] ut communicationem [illegible] [illegible]

[illegible] in tempori [illegible] [illegible]

[illegible] membrana tympani [illegible]

[illegible]

[illegible] tympani [illegible] ex his vero tremoris communicatur [illegible]

[illegible] simul [illegible] [illegible]

[illegible] conditiones [illegible] [illegible]

[illegible] communicatur [illegible]

[illegible]

[illegible]

26 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

30 [illegible] humores membranae quae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] parte in [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] perduculavis [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] et [illegible] angulum anteriorem.

31 [illegible] movendis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] naso abducunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnino plures [illegible] [illegible] tertio quarto [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

32 Anterior pars oculi, quae [illegible] [illegible] illa [illegible] conspicua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] membrana [illegible] [illegible] [illegible] [illegible] [illegible] habere [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] actioni [illegible] oculos [illegible] [illegible] [illegible] continua [illegible] [illegible] glandula magna [illegible] [illegible] [illegible] lacrimalis.

33 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] glandula magna [illegible] glandula [illegible] humor [illegible] [illegible] in copia e glandula [illegible] lacrimae [illegible]. [illegible] lacrimales glandulae sunt [illegible] crassiori humore lacrimali, [illegible] [illegible] [illegible] [illegible] [illegible] lacrimalis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

34 [illegible]

[illegible]

140 [illegible]

[illegible]

[illegible] gationis cerebro [illegible]

[illegible]

[illegible] motio quidem est facta. Ergo visionis organa [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] experimenti [illegible] non [illegible] officii [illegible]

5 [illegible]

[illegible] experimenti [illegible]

[illegible] sufficiente [illegible] maxime [illegible] liberè [illegible] transmittere [illegible]

6 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] obiecta omnia [illegible] colore [illegible]

Utraque superius terminatur parte [illegible] quae [illegible] forma [illegible] [illegible] folicas [illegible] communicant aperte [illegible] aquae per os [illegible] nares attrahit

[illegible] reddant [illegible] cavernulas constituunt [illegible] narium [illegible] patentes

[illegible]

Omnis [illegible] superficies [illegible] nares [illegible] membrana mollis [illegible]

[illegible] nervus mollis [illegible]

[illegible] internostati [illegible]

[illegible] per nares [illegible] membrana [illegible] per membranam [illegible] odorum habendi anima determinatur

[illegible]

[illegible] odores [illegible]

[illegible]

[illegible]

[illegible] positione non [illegible] particulis coeliant [illegible] aliis agere in nervos [illegible]
[illegible] [illegible] in quibus [illegible] et cavitates [illegible] in [illegible]

151 [illegible] unde odorum differentia [illegible]

Quia particulis odorif. pro varia quam habent figurâ, magnitudine, motu, [illegible] diversimode afficere fibrillas nervosas quae sunt olfactus organum hinc odorum differentia [illegible]

152 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] olfactorios nervos [illegible] [illegible] [illegible] [illegible] [illegible] totum [illegible] cerebrum et [illegible] [illegible] facile [illegible] [illegible] [illegible] [illegible]

153 [illegible] [illegible] pallorem etiam afficere [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] quae [illegible] nervis feruntur communicare cum aliis quae distribuuntur per [illegible] [illegible] [illegible] [illegible] officiantur irritatique sensationem in [illegible] [illegible]

154 [illegible] unde oriatur [illegible] narium

Quia membrana pituitaria, poros [illegible] [illegible] [illegible] bene ob humorem, quem [illegible] [illegible] membranam ipsam [illegible] [illegible] ut [illegible] pariores [illegible] [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] [illegible] [illegible] [illegible] officiatur [illegible] odorum [illegible] [illegible] [illegible] [illegible] naribus percipimus, [illegible] [illegible] naribus [illegible] afficit

155 Quaeritur unde oriatur sternutatio et inde totius pene corporis concussio

Quia [illegible] [illegible] odoribus irritatâ [illegible] [illegible] per nervos disseminata titillatio [illegible] nervis [illegible] et [illegible] abdominis, qui [illegible] [illegible] [illegible] hinc habetur sternutatio quae non [illegible] ac convulsio [illegible] [illegible] [illegible] et [illegible] abdominis, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] titillatio in nervis [illegible] per nervos disseminatis [illegible] [illegible] odoribus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] hinc habetur sternutatio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in sternutatio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nervos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod convulsio [illegible] [illegible] [illegible] ad alios etiam [illegible] communicatur, ac totum fere corpus concutiatur

156 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] maxillae [illegible] [illegible] glandulis, quae [illegible] [illegible] [illegible] humorem ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

157 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

158 [illegible] anteriorem [illegible] maxillae ossa [illegible]

[illegible] partes comunicant

100 [illegible] membrana [illegible]

[illegible]

[illegible]

6 [illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] gustus sit, exquisitus [illegible] in lambentibus; [illegible] veniet vel a nimia oris ariditate, vel a salso humore qui os asperserit; [illegible] humor salsus [illegible] (linguam) in nerveas papillas oris impedit ne in [illegible] [illegible] [illegible] [illegible] actionem [illegible] gerere, ariditate [illegible] papillae nerveae oris saporum actionem [illegible] minus [illegible] [illegible] [illegible] obsoleto [illegible] [illegible] ab oris partibus separari [illegible] [illegible] nervi [illegible] saporis [illegible] afficiare. Contra, fames oritur a stomacho [illegible] stomachi [illegible] [illegible] partes vellicant, et pungunt. [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quae saepe [illegible] [illegible] partibus [illegible] [illegible] [illegible] nerveas oris papillas [illegible] et [illegible] [illegible] [illegible] [illegible] actiones [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quasi [illegible] papillas nerveas [illegible] [illegible] [illegible] [illegible] [illegible] majorem [illegible] copiam [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] olfactu, et gustu, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tactiles corporum qualitates [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per omnes corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nervea epidermidem [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] organum consistit in pyramidalibus nerveis papillis [illegible] [illegible] corpus [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] papillis [illegible] [illegible] nerveae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] papillulae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] papillae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] papillis [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] papillae nerveae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis partibus [illegible] [illegible] [illegible] sensibilitas corporis [illegible] [illegible] [illegible] [illegible] tactus organum [illegible] nerveas papillas [illegible] potius [illegible] [illegible] [illegible] corporum [illegible] [illegible] [illegible] papillas [illegible] pyramidales [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] epidermidis, vel [illegible] [illegible] [illegible] corpore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] doloris [illegible]

[illegible] ... quod [illegible] ... [illegible]

[illegible] ... paulo [illegible] ... [illegible]

[illegible] ... quod non [illegible] ... [illegible]

[illegible] ... humano capite [illegible] ... [illegible]

De [illegible] corporis [illegible]

16 [illegible] corporis [illegible] in duas partes [illegible] ... [illegible]

[illegible]

ingo [illegible] ... [illegible]

[illegible]

[illegible] ... [illegible]

[illegible] ... [illegible]

[illegible] ... [illegible]

[illegible] ... membrana, quae dicitur [illegible]

[illegible]

[illegible]

[illegible] ... [illegible]

In corde interior conspiciuntur caveolae, quarum una a dextro ventriculo oritur una arteria. In dextro ventriculo invenitur arteria quae ad pulmones sanguinem dirigitur, ac per ipsos ramificationes dispergitur dicitur pulmonaria, et vena, quae ab amphoribus [illegible] dextra [illegible], et a vena [illegible] dividitur in duos ramos, ramque venae cavae descendentis et ascendentis in quos desinunt arteriae corporis, nostro vena, in arterias, quae a pulmone discedunt. a sinistro vero ventriculo oritur arteria aorta quae per longa diagrammata minores arterias distribuit, per totius corporis [illegible] in ipsis pulmonibus, et vena pulmonaris quae ramos ex ipsis [illegible] venas a pulmonibus [illegible] hinc ad utroque ventriculo arteriae, et vena coronaria, [illegible] non ingrediuntur [illegible] ventriculos, [illegible] sed duobus [illegible] quas [illegible] descendit, [illegible] ad [illegible] [illegible] cum ventriculis [illegible] oportunis valvulis sunt [illegible] que [illegible] claudi et aperiri [illegible] ut natura sanguinis [illegible] arteriis [illegible] ventriculos et e ventriculis in arterias [illegible] ex ventriculis, et a ventriculis in venas

149 [illegible] corpus [illegible] cordis [illegible] [illegible] ad [illegible] respondet in alba [illegible] parti [illegible] [illegible] [illegible] appellant [illegible] corpori quae [illegible]

150 [illegible] cum ore communicat quae trachea, seu aspera arteria, haec est canalis cartilagineus ex pluribus velut annulis [illegible] [illegible] parte colli, et [illegible] [illegible] descendens ad quartam [illegible] vertebram in duos ramos dividitur, quorum [illegible] dexter, [illegible] sinistrum pulmonem [illegible] [illegible], ac subdividuntur [illegible] in ramos varios, quos [illegible] appellant quae [illegible] [illegible] cum omnibus pulmonum vesiculis [illegible] [illegible] [illegible] [illegible] [illegible] pluribus ac membraneis partibus [illegible] [illegible] [illegible] [illegible] quae vocant [illegible], ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quae vocatur cordis [illegible] [illegible]

151 [illegible] videtur diaphragma, partem a [illegible] [illegible] diaphragmatis, [illegible] [illegible] [illegible] [illegible] [illegible] duplici membrana [illegible], quarum superior derivatur a pleura [illegible] a peritonaeo [illegible] membrana quae [illegible] [illegible] ventris [illegible] [illegible] [illegible] [illegible] a pleura; [illegible] [illegible] foramina, quorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vena cava, [illegible] aorta, [illegible] [illegible] vena, quam [illegible] vocant

152 Sub diaphragmate in [illegible] [illegible] ventris parte conspicitur stomachus, sive ventriculus, [illegible] superiori stomachi parte [illegible] [illegible] [illegible]

[illegible] intestina [illegible] continuus [illegible] [illegible] in plures partes [illegible]

[illegible] dolores [illegible]

[illegible] intestina tenuia [illegible] intestina [illegible] membranis [illegible]

[illegible] observantur [illegible] Altera est [illegible]

[illegible] glandulas [illegible]

[illegible] Hoc [illegible]

[illegible] glandulis [illegible]

[illegible] ventriculi [illegible] glandulis [illegible]

[illegible] in intestinum [illegible]

[illegible] glandulae [illegible]

[illegible] in duas [illegible] glandulis [illegible]

[illegible] in [illegible]

125 Infra ventriculum utrumque renem, juxta lumbos et situm [illegible] ... quod lumine [illegible] ... [illegible]
cos respondet [illegible] ... [illegible] ... [illegible]
[illegible] ... glandulis [illegible] ... [illegible]
cavitatem ... [illegible] ... [illegible]
... renes componunt [illegible] ... [illegible] exteriorem quae glandulosa [illegible]
... glandulas minores contingat media quae dicitur [illegible] ... tubulosa ...
congeries sit inferiorem partem capillarium tubulorum, demum intimam quae ... membranacea [illegible]
... a corticali e sanguine, atque ei per venas [illegible] filtratione separat [illegible]
urinam, quam per substantiam vasculosam in renes pelvim effundit

126. Renes utriusque lateris peculiare ... [illegible] ... [illegible]
... adequant ad vesicam ... [illegible] ... foramine inseruntur ...
pelvi urinam effundunt ... [illegible] ... [illegible]
pelvim renis. Est autem vesica quasi saccus [illegible] ... [illegible]
collum deorsum spectat ad [illegible] ... [illegible] ... per quod urina effunditur
[illegible] umbilico [illegible] ... [illegible] ... [illegible]
... [illegible] vesica [illegible] ... [illegible] ... nervoso ac
[illegible] ... vesica [illegible] producit, unde urina ...
[illegible] ... [illegible]

127 Ad partem utriusque renis superiorem ... [illegible] ... glandulae ...
... renes succenturiatae glandulae renales [illegible] ... [illegible]
... [illegible] ... apud anatomicos constat ... [illegible]
... sanguinem ... [illegible] ... in venulis [illegible]

128 ... ventris partes complectuntur, et continent ... ad latera ossa quae ...
... posteriori vertebrae lumborum, ossaque sacrum et coccygis ... dorsi spinae desinit

129 ... [illegible] ... in humani corporis ... [illegible]
... [illegible] ... digestio ... [illegible]
... [illegible] ... a digestione

130 [illegible] ... ventriculi ... [illegible] ... glan-
... [illegible] ... [illegible]
... [illegible] ... [illegible]
... [illegible] ... [illegible]
... [illegible] ... humore ... [illegible]
... [illegible] ... ventriculum ... [illegible]
... [illegible] ... [illegible] ... stoma-
... [illegible] ... [illegible]
... [illegible] ... a stomacho ...
... [illegible] ... pancreatico ...
... [illegible] ... [illegible]
... [illegible] ... fluido ... particulae a chilo ...
... [illegible] ... [illegible]
... [illegible] ... [illegible]
... [illegible] ... [illegible]

[illegible] ... odoratuque [illegible] ... tandem [illegible] ... excernirent ad [illegible] ut expellantur

191 [illegible] ... in stomacho [illegible] ... stomachi [illegible]

[illegible] ... stomachi [illegible]

[illegible] dissolvere [illegible]

192 [illegible] ... stomachi [illegible] ... in [illegible]

193 [illegible] ... stomachi [illegible] ... stomachi [illegible]

194 [illegible] ... digestionem [illegible] ... stomacho [illegible]

inquiritur alia causa digestionis

[illegible] ... stomachi [illegible] ... respirationis [illegible]

[illegible] ovres [illegible] stomacho [illegible] ante [illegible] [illegible] [illegible]
[illegible] suffi[illegible] posse [illegible] trituratione [illegible]

[illegible] contra argumentum hoc [illegible] [illegible] moles [illegible] nullo [illegible]
[illegible] stomacho [illegible]
[illegible] posse quantas [illegible] [illegible] [illegible]
[illegible] corpora [illegible], ut [illegible] contingit [illegible] quod [illegible]
[illegible] observavere. [illegible] omnibus [illegible] stomachi [illegible]
sunt [illegible] non [illegible] [illegible]
digerendis apta [illegible]

[illegible] [illegible] non [illegible] [illegible]
[illegible], quod non contingit.

[illegible] fuit [illegible] [illegible]
[illegible] [illegible] [illegible] colori [illegible]
[illegible] [illegible]
[illegible] [illegible]

[illegible] in omne [illegible] [illegible] [illegible]

[illegible] stomachum [illegible]
[illegible] stomachi [illegible]
[illegible]
[illegible] stomachos [illegible]
[illegible] succos [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in his [illegible] succis
[illegible] non [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] stomacho [illegible]
[illegible]
[illegible] succos [illegible] trituratione non [illegible]
[illegible]
[illegible]

[illegible] stomacho [illegible]
[illegible] stomacho [illegible]
[illegible] digestio [illegible]
[illegible]
[illegible] particulis. [illegible] hac [illegible]

[illegible] prima observatione [illegible] contra nos [illegible] potest, ne [illegible] stomacho [illegible] triturationis [illegible] stomachi [illegible] respondeat. [illegible] sit [illegible] trituratione [illegible] foramina [illegible] digest[illegible] non [illegible] succus [illegible] stomachi [illegible] foramina

200 [illegible] succus gastricus aut trituratione [illegible] membranae stomachi [illegible] membranae stomachi [illegible] membranae [illegible] stomachi [illegible] minima [illegible] trituratione [illegible] similia [illegible] membranae stomachi succus gastricus [illegible] trituratione [illegible] membranae stomachi [illegible] succus gastricus [illegible] trituratione [illegible]

201 Quaeres an succus idem gastricus cibos quoscumque digerat

[illegible] diversis [illegible] animalibus [illegible] gastricos succos diversae indolis ac [illegible]

202 [illegible] gravitate [illegible] ventriculi et intestina [illegible] gravitatis partes [illegible] ventriculi et intestina [illegible]

203 Quaeres quae bonam digestionem juvent aut noceant

[illegible] stomacho [illegible] digestionem [illegible] stomachi [illegible] stomacho [illegible] stomachus [illegible] affectionibus [illegible]

[illegible] in stomacho [illegible]

204. [illegible] in corpore [illegible]

[illegible]

205. [illegible]

[illegible]

206. [illegible] in parte [illegible]

207. [illegible]

[illegible] non [illegible] omnes sive [illegible] quae sangu[illegible]
[illegible] quaecumque [illegible]
[illegible] minuta [illegible] sanguis, et [illegible]
[illegible] non posset [illegible] sanguinis [illegible]
[illegible] et [illegible]
[illegible] sanguine [illegible]
[illegible] sanguinis [illegible]
[illegible]
[illegible] sanguinem [illegible]
[illegible] sanguine [illegible]
[illegible] et [illegible]
[illegible] et [illegible] vera [illegible]
[illegible] et [illegible] sanguinem [illegible] inde [illegible]
[illegible] sanguis [illegible] vena [illegible]
[illegible] sanguis [illegible]
[illegible] potest [illegible] sanguinem [illegible]
20 [illegible] phaenomena [illegible] non [illegible] sanguinem [illegible]
[illegible] sanguinis massa [illegible]
[illegible]
[illegible] posse [illegible] in [illegible] quod [illegible]
[illegible] sanguis [illegible] vena [illegible] vena [illegible] inde [illegible]
[illegible] hoc modo [illegible] sanguis [illegible]
[illegible]
[illegible] ne [illegible]
[illegible] ne [illegible] sanguis [illegible]
[illegible] sanguis [illegible] phaenomena [illegible]
[illegible] [illegible] functiones [illegible]
[illegible] et [illegible] per [illegible] hora [illegible]
[illegible] sanguinem [illegible]
[illegible] sanguinis [illegible]
[illegible] et [illegible]
[illegible] in sanguinis [illegible] sanguinis [illegible]
[illegible] sanguis [illegible]
[illegible]
[illegible] potest [illegible] sanguinis [illegible]
[illegible] sanguinis [illegible]
[illegible] et [illegible]
[illegible]
[illegible]
[illegible] sanguine [illegible]
[illegible]
[illegible]

contrahunt [illegible] partes [illegible] [illegible]

dispositio [illegible] sanguis [illegible] sanguis [illegible]

[illegible] sanguis [illegible]

[illegible] sanguinis [illegible]

[illegible] sanguis [illegible]

[illegible] circulatio [illegible]

[illegible] corpore [illegible]

[illegible] sanguinis [illegible]

[illegible] circulatione sanguinis [illegible]

[illegible] sanguinis [illegible]

[illegible] circulatione sanguinis [illegible]

[illegible] sanguinis [illegible]

[illegible] circulatione [illegible] sanguinis [illegible]

[illegible] sanguinis [illegible]

[illegible] sanguinem [illegible]

[illegible]

[illegible] sanguinem [illegible] Vrosii observationibus non efficitur

[illegible] sanguinis [illegible]

[illegible] sanguinem [illegible]

[illegible] sanguinem [illegible]

[illegible] sanguinem [illegible]

[illegible] sanguinem [illegible]

[illegible]

[illegible] dato [illegible] sanguine non [illegible]

[illegible] sanguine [illegible]

[illegible] sanguis [illegible]

[illegible]

[illegible] sanguinis circulationem non [illegible]

[illegible] pulsus [illegible]

[illegible] sanguinis [illegible] non [illegible]

[illegible] sive quia [illegible]

[illegible]

[illegible]

[illegible] sanguinis [illegible]

[illegible] sanguine [illegible]

[illegible]

[illegible]

[illegible]

[illegible] sanguinis constitutionem [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] non [illegible]

[illegible]

[illegible] partibus communicant [illegible]

[illegible] sanguine [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

sanguinis [illegible]

[illegible] sanguinis [illegible]

[illegible]

[illegible] sanguinis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] non [illegible] circulatione sanguinis

[illegible] sanguis [illegible]

[illegible]

[illegible] habent [illegible] [illegible]

[illegible] [illegible] [illegible] habet [illegible]

[illegible] sanguinis [illegible] [illegible]

424 [illegible] humano corpore [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] non in [illegible]

2 [illegible] sanguis [illegible] [illegible]

[illegible] sanguinem [illegible] [illegible]

[illegible] [illegible]

[illegible] arteriis [illegible] communicant

3 [illegible] [illegible]

[illegible] ascendens, descendens [illegible] simul [illegible] sanguis [illegible]

[illegible] sanguis [illegible] ascendente [illegible]

[illegible] aortae [illegible] descendentis [illegible]

[illegible] nullus [illegible] descendentes aortae [illegible]

4 [illegible] sanguinis [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] sanguinem [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] sanguinem [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] sanguinem [illegible] [illegible]

[illegible] ascendentis [illegible]

[illegible] [illegible] [illegible]

5 [illegible] [illegible] [illegible]

[illegible] sanguis [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] sanguinis [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] sanguinis [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible]

In aorta [illegible] ascendente, et descendente [illegible] dextraque [illegible] partes tamen sanguinis in aortam descendentem [illegible] causa aliud [illegible] ex immensa [illegible] a quo [illegible] et [illegible]

[illegible] causa sanguinem [illegible] cerebro [illegible] ascendere [illegible] a [illegible] sanguis [illegible] causa sanguinem [illegible] causa [illegible] sanguine [illegible] circulationis sanguinis [illegible] arteriis [illegible]

[illegible] constringimus [illegible] fibr[illegible] [illegible] sanguis [illegible] sanguinem [illegible] replentur [illegible] sanguinis [illegible] sanguinem [illegible] communicatas [illegible]

[illegible] extremitates [illegible] sanguis [illegible] sanguinem [illegible]

[illegible] sanguinis [illegible] venis [illegible] sanguinem [illegible] sanguinis [illegible] sanguinem [illegible] sanguinis [illegible] dispositionem [illegible] sanguinem [illegible]

[illegible] sanguinis motus et [illegible]

[illegible] cor [illegible] gravitatis [illegible] corporis [illegible] et [illegible] potuisset [illegible]

[illegible] omnes, et ob [illegible]

[illegible] ventriculi cordis et [illegible] sanguini [illegible]

[illegible] vena arteriosa [illegible] possit [illegible]

[illegible] nulla [illegible] cor in [illegible]

[illegible] venas omnes [illegible] sanguine [illegible]

[illegible] in [illegible] gravitatis sive in [illegible]

[illegible] positis costis [illegible]

[illegible]: [illegible] sanguinis circulationem [illegible] motum [illegible] adversarii [illegible]

[illegible] utroque cordis [illegible]

[illegible] sanguis [illegible]

[illegible] cordis ventriculos [illegible]

[illegible] columnas [illegible]

[illegible] sanguinis [illegible]

[illegible] sanguinem ab utroque [illegible]

[illegible] sanguinis [illegible] adversarios [illegible]

[illegible] sanguinem [illegible] sanguinem [illegible]

[illegible] ventriculo [illegible]

[illegible] sanguis [illegible] ventriculo [illegible]

[illegible] nutritionem corporis [illegible]

[illegible]

[illegible] causa [illegible] motum cordis [illegible]

Resp. [illegible]

[illegible] actio [illegible]

[illegible] animales spiritus [illegible] cordis [illegible]

[illegible]

[illegible] probare.

[illegible] sanguinis [illegible] arteriis [illegible]

[illegible] Sanguinem in arteriis [illegible]

[illegible] venis [illegible]

[illegible]

[illegible]

[illegible] tempore [illegible] sanguinis circulatio [illegible]

[illegible] anatomicos [illegible]

[illegible]

[illegible] sanguinis [illegible]

[illegible] sinistro ventriculo cordis [illegible] sanguinis [illegible]

[illegible] hora [illegible] centes [illegible]

[illegible]

[illegible] sanguinem per singulas cordis ventriculi [illegible] [illegible] cir[cula]tione, [illegible] [illegible] arteriis, venis [illegible] quaqua: [illegible] [illegible] circulatio [illegible] sanguis ea velocitate [illegible] [illegible] qua [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] circulo [illegible] [illegible] [illegible] [illegible] velocitatem esse ad [illegible] [illegible] [illegible] habemus nullas [illegible] ad [illegible]

[illegible] [illegible] [illegible] sanguinis circulatio [illegible]

[illegible] circulatione sanguinis [illegible] [illegible] sanguinis ipsius fluidos [illegible] [illegible] in ipso [illegible] [illegible] quippe in sanguine quiescente [illegible] separari a serosa, coagulari et concrescere in [illegible] [illegible] experimento: [illegible] [illegible] [illegible] ad [illegible] [illegible] partibus [illegible] [illegible] [illegible] in locis [illegible] [illegible] [illegible] vel per sputum, vel per [illegible], vel per [illegible] transpirationem [illegible] [illegible] membra [illegible] sanguinis particulas, quae poros [illegible] solidis membrorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sanguinis ac membrorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in corpore [illegible] [illegible] [illegible] [illegible] sanguis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] bonam vel malam [illegible] [illegible] [illegible] ac [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] experientia

221 [illegible] [illegible] sit sanguinis natura

[illegible] conveniunt [illegible] medicos omnes, [illegible] sanguinem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pars est [illegible] [illegible] est, [illegible] [illegible] partes [illegible] [illegible] sunt, [illegible] [illegible] [illegible] [illegible] partes sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] particula [illegible] [illegible] [illegible] [illegible]

222 [illegible] [illegible] aeris commisceri, [illegible] [illegible] [illegible] [illegible] quippe si sanguinem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnes [illegible] [illegible] [illegible] pars [illegible] [illegible] [illegible] quippe [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in sanguinem [illegible] [illegible] [illegible] [illegible] [illegible] medicos controversia [illegible] [illegible] sanguinem [illegible] [illegible] [illegible] [illegible] [illegible] in pulmonibus separatae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] communicatur [illegible] respiratione pulmones [illegible] sanguineos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per respirationem attracta, [illegible] [illegible] [illegible] [illegible] sanguinem [illegible] [illegible] sanguinem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] particulae [illegible] [illegible] [illegible] [illegible] aeris inspiratione [illegible] quod [illegible] respiratione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] respirabant [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sanguineas [illegible] [illegible] [illegible] [illegible]

223 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sanguinem [illegible] [illegible] respirationi [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] sanguinem [illegible] commiscerj [illegible] sanguinem [illegible]
esse per respirationem [illegible] simpliciter [illegible] aer [illegible] corpora [illegible]
[illegible] non [illegible] aer [illegible] in [illegible] respiratione [illegible]
in pulmonibus aere [illegible] vero non sanguinem [illegible] sed [illegible] omnino [illegible]
[illegible] docet. [illegible]

[illegible] non contrahi [illegible]
[illegible]
[illegible] contrahi [illegible]
[illegible] sanguinem [illegible] respiratione [illegible] non [illegible]
[illegible] pulmonum [illegible] pulmonarie [illegible]
[illegible]
[illegible] sanguinem [illegible]
[illegible] sanguine [illegible] aere [illegible] respirationis [illegible]
[illegible] post respirationem [illegible]
[illegible]

[illegible] pulmonibus [illegible] sanguinem [illegible]
[illegible] pulmonem [illegible]
[illegible] pulmonis [illegible] respiratione [illegible]
[illegible] pulmonarij [illegible]
[illegible]

[illegible] bronchiorum [illegible]
[illegible] in pulmonibus [illegible] post respirationem [illegible] sanguinem [illegible]
[illegible] pulmones [illegible]
[illegible] pulmone [illegible] sanguinem [illegible]
[illegible] post [illegible]
[illegible]
[illegible] sanguinem [illegible]

[illegible] sanguinem [illegible]
[illegible]

[illegible] pulmonibus [illegible]
[illegible] in sanguine [illegible]
[illegible]
[illegible] pulmonibus [illegible]
[illegible] pulmonibus [illegible]
[illegible]
[illegible] aer [illegible] ipso [illegible] in [illegible]
[illegible] pulmonibus [illegible]

[illegible] [illegible] [illegible] ... observavit [illegible] ...
[illegible] sanguis in [illegible], [illegible] officio non posset [illegible] sanguinem [illegible]
per [illegible] [illegible] non impedit [illegible] humoris [illegible]
[illegible] bronchiis [illegible]

[illegible], [illegible] anastomoses [illegible] venas pulmonarias [illegible] posse [illegible] [illegible]
[illegible] [illegible] sanguinem [illegible]
[illegible] ut sanguis [illegible]:

[illegible] [illegible] quo pulmonum bronchia [illegible] non [illegible] potest ingressum aeris in sanguinem [illegible]
[illegible] impediat ingressum aquae [illegible] bronchiis, et [illegible] per [illegible]
[illegible], [illegible] potest [illegible] [illegible]
[illegible] [illegible] est [illegible]

[illegible] [illegible] pulmonari [illegible] si utraque ligata in vacuo ponatur, [illegible]
[illegible] arteria pulmonaris in vacuo posito [illegible] particulas [illegible] inflata [illegible]
[illegible] sanguinis [illegible] aeris [illegible] continere, [illegible]
[illegible] experimentis [illegible] in vacuo [illegible] pulmones et arteria pulmonalis [illegible]
[illegible] [illegible]
[illegible] bronchia pulmonum, et arteria [illegible]
[illegible] [illegible]
[illegible] sanguinem [illegible]
[illegible] pulmonum [illegible] sanguinis [illegible]
[illegible]

[illegible] [illegible] [illegible] articulis [illegible]
[illegible] vasa [illegible] contingere [illegible]
[illegible] non posse [illegible] pulmonis [illegible]
[illegible] pulmonibus [illegible]
[illegible] sanguinem [illegible]
[illegible] pulmonis [illegible]
[illegible] [illegible]
[illegible] [illegible]

[illegible] [illegible] contingat [illegible] sanguine [illegible] respondent [illegible]
[illegible] sanguinis [illegible] [illegible]
[illegible] pulmonum [illegible] sanguinem [illegible]
[illegible] sanguine [illegible]
[illegible]

2\. [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]

22\. [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible]

[illegible]

[illegible] humano corpori [illegible] adnovatur [illegible]

[illegible]

227 [illegible] continuo [illegible] Circa nutritionem corporis [illegible] omnes corporis nostri partes [illegible] facile [illegible]

228 [illegible] nutritio [illegible] partes fluidae [illegible]

[illegible]

[illegible]

[illegible]

[illegible] in humano corporis [illegible] pulmones [illegible]

233 In respiratione costae elevantur, diaphragma [illegible] abdomen deprimitur [illegible] thoracis cavitas amplior [illegible] pulmones, et [illegible] thoracis [illegible] [illegible] per tracheam [illegible] in pulmones [illegible]

[illegible]

[illegible] expiratio [illegible] comprimuntur

234 [illegible] organa praecipua, et activa respirationis [illegible] musculos [illegible] musculos diaphragmatis, qui [illegible] musculos abdominis [illegible] [illegible], ut [illegible] organa [illegible] expirationis [illegible] musculi, [illegible] diaphragma et abdomen [illegible]

235 Ad [illegible] respirationis [illegible] [illegible] [illegible] sive per [illegible] sive per [illegible] thoracis cavitatem [illegible] respirationem [illegible]

[illegible]

[illegible] inspirationem [illegible]

Sed [illegible] non [illegible] [illegible] [illegible] et habere [illegible] [illegible] organa [illegible] thoracis diaphragmatis et abdominis [illegible] [illegible] pulmones [illegible] diaphragmatis et abdominis non [illegible]

[illegible] respirationem [illegible] effectus [illegible]

[illegible]

Ad his [illegible] perforato thorace vel diaphragmate [illegible] respiratione [illegible] [illegible] magna [illegible] respirationes [illegible] respiratio [illegible] aut pulmonum [illegible] pulmonum [illegible] diaphragmatis [illegible] respirationi [illegible] thoracis, vel diaphragmatis [illegible] [illegible]

[illegible] in utroque latere [illegible]
[illegible] quilibet [illegible] posset [illegible]
[illegible] inspiratio [illegible] pulmone [illegible]
[illegible]

[illegible] pulmones [illegible]
[illegible]
[illegible] pulmonum [illegible]
[illegible] non [illegible]
[illegible] pulmones [illegible]
[illegible] inspiratione pulmones [illegible]
[illegible] pulmones [illegible]
[illegible] pulmones [illegible]
[illegible]
[illegible] pulmones [illegible]
[illegible] inspiratione [illegible]
[illegible]
[illegible]

23 [illegible]
[illegible]
[illegible] respiratione [illegible]
[illegible]

[illegible] in respiratione [illegible]
[illegible]
[illegible] inspiratione [illegible]
[illegible]
[illegible] inspiratione [illegible] pulmones [illegible]
[illegible] respiratione [illegible]
[illegible] pulmones [illegible]
[illegible]
[illegible] inspiratione [illegible] exspiratione [illegible]
[illegible]
[illegible] pulmones [illegible]
[illegible]

[illegible]
[illegible] pulmones [illegible]
[illegible] inspiratione [illegible]
[illegible] inspiratione [illegible]

23 [illegible]
[illegible]
[illegible]
[illegible]

[illegible] sit calidior ac magis [illegible] in iis qui sunt [illegible] quam in iis, qui respirant [illegible] [illegible] tamen haec evenire [illegible] animalium [illegible] in [illegible], quia in respiratione [illegible] sanguinis, sed retinemus hanc posteriorem sententiam ut probabiliorem hodiernis

239 Sed cum animalia [illegible] respirantia habent sanguinem [illegible] vero [illegible] sanguis respiratione [illegible] ruborem obtinet

[illegible] respiratione [illegible] quod [illegible] quippe sanguis [illegible] aeri [illegible] [illegible] nos [illegible] a frigidiori aere inspirando, [illegible] in expiratione [illegible] [illegible] sanguinis colorem respiratione [illegible]

[illegible] observant [illegible] animalia habent sanguinem [illegible] licet respirent [illegible] non [illegible] est [illegible] vero [illegible] [illegible] ordinarius respirationis effectus [illegible] opinione [illegible] universaliter confirmare

Sed [illegible] sententiam [illegible] effectum respirationis [illegible] quod [illegible] satis patet, [illegible] sanguinis in arteriis et venis pulmonaribus, et [illegible] potest [illegible] quia in [illegible] sanguis in arterias [illegible] et per pulmones transfusus [illegible] [illegible] in arterias [illegible] venis pulmonaribus [illegible]
[illegible] non est, nec enim potest aeri sanguis [illegible] motus [illegible] plures particulas [illegible] colorem [illegible]
[illegible] non [illegible] sanguinem [illegible] in respirantibus [illegible] respiratione colorem sanguinis [illegible] non [illegible], sive a respiratio[illegible] [illegible] sanguinem [illegible] [illegible]

Nec sanguinis [illegible] non [illegible] respiratione [illegible] colorem [illegible] sanguinem [illegible] [illegible] ut [illegible] a sanguine [illegible] [illegible] sanguinem [illegible] fermentationem [illegible]

[illegible] alia quae forte [illegible] hoc loco [illegible] difficultates [illegible] [illegible] sanguinis fluiditatem [illegible] [illegible] glandulas [illegible] et [illegible] chyli [illegible] ac [illegible] causis pluribus

240 Utrum respiratio sanguinis circulationi, ac proinde vitae etiam necessaria sit. [illegible] sanguinis [illegible] fluiditatem [illegible] [illegible] observationes [illegible] in iis animalibus quibus suffocatis [illegible] [illegible] sanguinis [illegible] in dextro cordis ventriculo ac arteria pulmonari [illegible] [illegible] vena pulmonaris et sinistro ventriculo [illegible] sanguinem [illegible] impedita respiratione etiam sanguinis circulationem [illegible] [illegible] respiratio ad sanguinis circulationem non esset necessaria [illegible] [illegible] pulmones et [illegible] per fistulam [illegible] motus ac [illegible] sanguinis [illegible] observationes [illegible] respirationi [illegible] [illegible] necessaria [illegible] [illegible] impedita respiratione [illegible] circulatione

[illegible] ... [illegible] sanguinis [illegible] est [illegible] necessaria

Q. 12. [illegible] quando [illegible] ad [illegible] sanguinis respiratio conferat?

[illegible] non [illegible] [illegible] non [illegible] [illegible] frequentia [illegible] [illegible] in cavitatem [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] ... [illegible] pulmonem [illegible] ardorem, unde [illegible] ventriculi cordis, propulsus in totum corpus [illegible] [illegible] fundatur.

[illegible] animalia multa sine respiratione vivere: [illegible] aqua [illegible] [illegible] [illegible] [illegible] [illegible] ... [illegible] respirationem [illegible]

[illegible] animalia [illegible] [illegible] respirationi [illegible] [illegible] [illegible] [illegible] natura [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] ... [illegible] [illegible] [illegible] pulmones [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ... [illegible] [illegible] possit, ut [illegible] patet.

[illegible] [illegible] [illegible] [illegible] [illegible] respirationis [illegible] ... [illegible] non per pulmones transeat [illegible] ... [illegible] circulatio sanguinis [illegible], sine respiratione.

[illegible] [illegible] [illegible] [illegible] ... [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] respiratio [illegible] [illegible] ... [illegible] aqua [illegible] [illegible] [illegible] ... [illegible] sanguinis [illegible] [illegible] ... [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] ... [illegible] [illegible] [illegible]

habent modica in copia, ac [illegible] pulmones [illegible] a ardiores in quibus major [illegible] copia servatur, denique [illegible] respirant [illegible] tempore conservare [illegible]

243 [illegible] respiratio [illegible] aere [illegible] inspirato attrahuntur secundo ad sese [illegible] agitationem [illegible] [illegible] ex inspirato aere certa [illegible] ratione [illegible] [illegible] in [illegible] per [illegible] [illegible] ad [illegible] quo [illegible] spiritu [illegible] in [illegible] insensibilem transpirationem [illegible] [illegible] in inspiratione [illegible] ipsae sint partes sive solidae sive fluidae ad motum [illegible] [illegible] ad producendam vocem [illegible] [illegible] sine respiratione nullo [illegible] [illegible] [illegible] haec contingant modo [illegible]

244 [illegible] [illegible] [illegible] respiratione [illegible] [illegible] [illegible] non satis [illegible] [illegible]
[illegible] trachea habere [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] organi et similiter [illegible] varios [illegible] vocis sonos [illegible] [illegible] quod trachea [illegible] ac amplitudo [illegible] multis modis [illegible] [illegible] [illegible] [illegible] ordines [illegible] [illegible] in diversos [illegible]

3 [illegible] haec sententia [illegible] non [illegible] [illegible] vocem non [illegible] aere produci, et in tibiis sonum sed ab aere [illegible] [illegible] non [illegible] formari ab aere in trachea [illegible] [illegible] [illegible] suffocato [illegible] [illegible] nec vocis formam [illegible] [illegible] [illegible] organum non tracheam sed [illegible] [illegible] [illegible] ipse [illegible] [illegible] [illegible] [illegible] triginta duos diversos [illegible] [illegible] [illegible] aeris [illegible] trachea [illegible] in [illegible] [illegible] tremores [illegible] [illegible] [illegible] unde vocis sonus [illegible] [illegible] sonos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

5 [illegible] Dodarti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] ipse [illegible] [illegible] [illegible] [illegible] [illegible] sonus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] longe [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aere [illegible] [illegible] per [illegible] glottidem [illegible] [illegible] vocem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sententiam [illegible] [illegible] [illegible] systemata [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vocalibus tensionis gradus [illegible] [illegible] primo manente eadem vocalium [illegible] [illegible] [illegible] glottidis [illegible] [illegible] secundo eadem manente [illegible] glottidis, [illegible] affectionibus non [illegible] [illegible]. Et [illegible] [illegible] [illegible] [illegible]

[illegible] voce pariet [illegible] major [illegible] minori [illegible] quia vocem esse [illegible]
[illegible] experimentis [illegible]
[illegible] in [illegible] cordis [illegible]
[illegible] experimentis [illegible]
[illegible]
a [illegible] vocis organi [illegible] in [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] compositum [illegible]
[illegible] instrumentorum [illegible]
[illegible]
[illegible]
[illegible]
[illegible] organi humani vocis [illegible] instrumenti [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] vocis [illegible]
[illegible] omnino [illegible]
[illegible]
[illegible]
[illegible] instrumentorum [illegible]
[illegible]

[illegible] chordas [illegible]
2 [illegible]
[illegible]

3 [illegible]
[illegible] modo [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

In cartilagines [illegible] quibus angustiis constructa sunt [illegible] [illegible] habent [illegible] alternantibus sonum, et foramen [illegible] et [illegible] [illegible] externum [illegible] [illegible] vero cartilaginibus [illegible] quibus vocales cordae [illegible] in [illegible] partes [illegible] vocales [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] longitudine et tensione sonum [illegible] [illegible] variata longitudine, et tensione vocalium cordarum [illegible] humana vox potest [illegible] gradibus [illegible] [illegible] mille [illegible] [illegible] novem mille sexcentos triginta duobus modis [illegible] [illegible] vocalis [illegible] possit [illegible] [illegible] humana.

2 [illegible] vocales cordae [illegible] sunt organa [illegible] humanae vocis [illegible] [illegible] glottide [illegible] [illegible] [illegible] paulo [illegible] [illegible] [illegible] diversas voces [illegible] [illegible] [illegible] [illegible] per omnes tremendi facultates [illegible] cordas [illegible] tremores concipere possint [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cartilagine licet paulo duriore [illegible] quotquot de [illegible] [illegible] [illegible] fabricam ad aquam [illegible] [illegible].

2ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humanae vocis [illegible] [illegible] magnitudine, [illegible] [illegible] [illegible] [illegible] [illegible] longitudine, et tensione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] longitudine, et tensione [illegible] vocalium [illegible] humanae vocis [illegible] [illegible].

1 In pueris, ac mulieribus [illegible] [illegible] plerumque vox [illegible] quam in viris, [illegible] in pueris cordae vocales [illegible] breviores sunt, [illegible] [illegible] mulieribus multo minus [illegible] sunt quam in viris [illegible] quod [illegible] pueris ac mulieres [illegible] [illegible] [illegible] [illegible] cartilagines plures [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vocis [illegible] et imminuta longitudine [illegible] [illegible] [illegible] [illegible] ad viros maxime [illegible] pueri [illegible] [illegible] minus [illegible] apparuere

2 In pueris, adolescentibus vox [illegible] [illegible] semper in graviorem [illegible] [illegible] [illegible] [illegible] [illegible] continuo [illegible] apparuere

3 In hominibus variis statis [illegible] vera [illegible] potest [illegible] [illegible] temperamento [illegible] [illegible] tensione longitudine, crassitie [illegible] [illegible] possunt [illegible] [illegible] apparuere. [illegible] in [illegible] vox plerumque gravissima [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vocales [illegible] habent [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sonant, quo vocales [illegible] [illegible] [illegible] vox acutior [illegible] [illegible]

Quod spectat magnitudinem ac diversionem [illegible] vocis differunt [illegible] causa, scilicet ob variam magnitudinem [illegible] vocatoriam, quippe caeteris paribus [illegible] magnitudine [illegible] majores, vel minores [illegible] vel ob variam aperturam glottidis, quae in majori modo minor [illegible] quod exeat copia aeris majorisque [illegible] vel minoris [illegible] in [illegible] vocalibus [illegible]

[illegible] quae spectat [illegible] ceteris paribus [illegible] [illegible] [illegible] [illegible] et [illegible] et teniora [illegible] chordas [illegible] [illegible] [illegible] [illegible] distinctio vocum

Secundo modulatur [illegible] vocis sonus a vocalibus chordis [illegible] in ore [illegible] variis modis [illegible] in ore [illegible] naribus [illegible] videtur [illegible] sonorus [illegible] glottide [illegible] in cavitate oris [illegible] [illegible] ibique [illegible] in loco [illegible] variis inflectionibus et reflectionibus [illegible] [illegible] quadam ipsius resonantia major magnitudinis [illegible] voce [illegible] [illegible] et [illegible] si quis ore [illegible] naribus clausis loquatur, unde [illegible] [illegible] [illegible] non [illegible] vocis [illegible] [illegible] naribus [illegible] voce in ipsis resonare, sive [illegible] homines [illegible] loquantur; [illegible] in [illegible] ab ore [illegible] voce [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] majori [illegible] et minori [illegible] [illegible] [illegible] [illegible] et praecipuum organum humanae vocis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] vocis organum animalibus [illegible]

Respondeo plerumque animalia ad vocem edendam [illegible] [illegible] homines, sed [illegible] organum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] complicari potest [illegible] [illegible] musculi, qui [illegible] [illegible] modo [illegible] [illegible] [illegible] musculi motus [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

230 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humanae [illegible] [illegible] oris aperturam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] consonantes pronunciare [illegible] [illegible] [illegible] [illegible] oritur [illegible] a pronunciatione [illegible] [illegible] vocis [illegible] [illegible] [illegible] [illegible] oritur cantus

Elementorum Metaphysicae Pars Tertia
Cosmologia

1 Cosmologia [illegible] cosmos [illegible] est scientia quae agit [illegible] [illegible] universitatis [illegible] [illegible] Metaphysicae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sistematis [illegible] [illegible] [illegible] [illegible] [illegible] et plura [illegible] [illegible] in prima Metaph. [illegible] parte [illegible] variis dissertationibus, [illegible] definitiones [illegible] cosmologicas [illegible] [illegible]

2 [illegible] est [illegible] [illegible] simultaneor[um] [illegible] [illegible] nostrae [illegible] [illegible] [illegible]

3 [illegible] partium [illegible] mundi componentium correspondentia, seu relatio, ordine simul [illegible] [illegible] ordinem [illegible] [illegible] mundum componentium [illegible] mundus [illegible] est [illegible] [illegible] mundi componentium [illegible] [illegible] chaos [illegible]

4 [illegible] cosmologicae [illegible] natura [illegible] et [illegible] in mundo chaos [illegible] [illegible] [illegible] Metaphysicae seu Mechanicae, quibus [illegible] [illegible] [illegible] spiritus [illegible] [illegible] leges cosmologicae [illegible] [illegible] leges cosmologicae [illegible] [illegible] aeterna [illegible] [illegible] [illegible] leges cosmologicae [illegible] leges [illegible] [illegible] agendi [illegible] quibus [illegible] motus [illegible] [illegible] motus [illegible]

5 Spatium [illegible] non [illegible] [illegible] [illegible] [illegible] in longum, [illegible] in latum, aut in profundum [illegible] [illegible] ipsa corpora [illegible] [illegible] [illegible]

6 [illegible] continua [illegible] [illegible] absolutum, et relativum [illegible] [illegible] [illegible] entis [illegible] nulla [illegible] ad alia entia [illegible] [illegible] ad alia entia [illegible] [illegible] [illegible] aeternitatem, [illegible] [illegible] [illegible] [illegible] [illegible] entis [illegible] [illegible] entis [illegible] [illegible] [illegible] [illegible] in ente [illegible] [illegible] [illegible] [illegible] admittit [illegible] [illegible] Metaphysicam, sive successionem durationis respectu conceptus nostri

7 Motus dicitur actio [illegible] [illegible] de loco in locum translatum, sive [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Newtono in Scolio [illegible] Princ. Mathematicorum [illegible] spatii scilicet absolutum, et relativum, absolutum est pars spatii ~~[illegible]~~ [illegible] sine relatione ad [illegible] semper manet [illegible], et immobile, relativum est pars spatii [illegible], quae scilicet ex distantia [illegible] corporum determinatur. [illegible] motus [illegible] est translatio corporis de loco absoluto in absolutum, [illegible] de loco relativo in [illegible] [illegible] vel relativus. [illegible] in navi [illegible] motu [illegible] absoluto moveri dicitur, [illegible] occupat diversas [illegible] spatii absoluti [illegible] navi [illegible] relative [illegible], quae scilicet in navis [illegible] continetur, [illegible] in ipsa navi continentur. [illegible] motum [illegible] communis, [illegible] qua motus [illegible] in communem et proprium [illegible] vel corpus, vel quatenus [illegible] transfert, ille, vel corpus aliud transfert: proprius est in homine qui [illegible] movet, communis est in homine, qui [illegible] navi defertur.

2 [illegible] motus in corpore [illegible] habetur [illegible] quies non [illegible] quod motus privationem [illegible] nil [illegible] positivi [illegible], et [illegible] audiens [illegible] hominibus [illegible], philosophantem [illegible] humanus, quod non [illegible] [illegible]

Dissertatio Prima

De Universi Principiis

3 [illegible] omnes [illegible] corpus [illegible] ex incorporeo [illegible] universi [illegible] determinandum est [illegible] corpora, et [illegible] spatio vacuo [illegible] non existenti [illegible] innectitur; [illegible] existentia [illegible] sive [illegible] [illegible] corporum [illegible] clarus atque [illegible] et [illegible] sanioribus et sapientioribus philosophis [illegible] existentiam [illegible] evidentia [illegible] intelligibili [illegible] [illegible] potuerunt

10 [illegible] existentiam spectat spatii vacui hoc triplex [illegible] a philosophis. [illegible] et [illegible] [illegible] vacui [illegible] [illegible] immobile et [illegible] spatium [illegible] vacuum [illegible] [illegible] vacua [illegible] intra ipsas corporis partes existentia spatium [illegible] [illegible] quod [illegible] positiones [illegible] spatium [illegible] [illegible] non [illegible] et absolutum [illegible] relativum [illegible] spatio vacuo [illegible]; hoc enim [illegible] spatiis [illegible] [illegible] patiuntur; [illegible] in physica [illegible] corpora [illegible] [illegible] spatii [illegible] [illegible]

Propositio

Motus corporum postulat existentiam spatii alicujus vacui disseminati

Pro 1. Motus corporum probatur: si absque disseminato vacuo nec ullus posset dari motus, nec semel excitatus [illegible] perseverans uti experimentis [illegible]: atqui absque disseminato vacuo, nec ullus et. Verum quod absque [illegible] motus, si omnia plena perfecte essent, et nullum esset vacuum, corpus quodcunque moveri non poterit, [illegible] aequalem sibi materiae quantitatem expellat a loco suo, in quem tendit, ea autem materia quem [illegible] ab eo proprio expellere [illegible] aequalem aliam materiae quantitatem [illegible] a loco suo propellat, et sic usque in infinitum. Itaque si omnia plena sint corpus quodcunque moveri non potest nisi omnis simul et [illegible] materia moveatur, ac proinde ni corpus quod tanta vi pellat quanta [illegible] [illegible] universa [illegible] [illegible] movendo sufficiat, atque corpus nullum est quod tanta vi [illegible] [illegible] si omnia plena et nullum vacuum moveri poterit corpus seu nullus poterit motus existere.

Sed etiam si semel excitaretur, nec [illegible] posse motum durare [illegible] experimentis [illegible] [illegible] plena perfecte sint, constat communi observatione pilam e tormento bellico explosam vim sensibilem [illegible] [illegible] per magnam longitudinem plusquam [illegible] diametro majorem [illegible] [illegible] plena omnia perfecte sunt: [illegible] omnia sunt, eadem erit densitas pilae et aeris per quem movetur pila, [illegible] materiae quantitas in pila, ac [illegible] aeris [illegible] [illegible] moveri [illegible] poterit [illegible] [illegible] diametro aequalem sibi in quantitate aeris sibi [illegible], et aequalem [illegible] [illegible] [illegible] motum [illegible] [illegible] [illegible] [illegible], corpus quodcunque [illegible] [illegible] velocitatis debet, [illegible] [illegible] [illegible] et aequale corpus e quiete ad motum impellit. [illegible] [illegible] [illegible] longitudine [illegible] diametro aequali [illegible] velocitatis [illegible] [illegible] [illegible], [illegible] plena perfecte sunt [illegible] posse longitudinem plusquam [illegible] diametro majorem absque [illegible] velocitatis [illegible] [illegible]. [illegible] semel [illegible], nec ita posset motus [illegible] absque vacuo.

[illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vacuo [illegible] [illegible] materiam [illegible] locum necessario habet corpus, quod movetur, [illegible] posse, [illegible] interposita spatiola [illegible] occupando, [illegible] moto corpori locum [illegible] cedere posse, quia aequalem aliam quantitatem materiae a loco suo propellit. [illegible] motu corporis [illegible] [illegible] [illegible] simul materia movetur. [illegible] potest corpus quodcunque moveri in [illegible] [illegible] multis vacuis, [illegible] posse longitudinem etiam [illegible] [illegible] [illegible] quantitatem materiae [illegible] a loco suo expellere, [illegible] quod [illegible] [illegible] materiae quantitati debet motus sui partem communicare, [illegible] [illegible] sensibile [illegible] [illegible] [illegible], [illegible] ceteris [illegible] [illegible] [illegible] materiae [illegible] communicatur [illegible] [illegible] [illegible] aeris per quem movetur [illegible] corporibus [illegible] motus suos conservent absque velocitatis decremento sensibili

19 Obj: in posito pleno perfecto motus haberi adhuc posse [illegible] [illegible] spatia omnia [illegible] materia et corporum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in hac [illegible] [illegible] [illegible] in fluidis aliis, puta aqua [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aquae ad [illegible] [illegible] [illegible] ad latera et quae ad latera [illegible] [illegible] [illegible] [illegible] [illegible] piscis [illegible]. [illegible] [illegible] [illegible] haberi poterit motus in fluido illo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] elasticum [illegible] est [illegible]

[illegible] cadat [illegible], et [illegible] plano [illegible] motu [illegible]
[illegible] in [illegible] plano, sed fluidissimo, mobilissimo [illegible] posse
[illegible] impossibile
[illegible] demonstrabitur?

3 [illegible] moveri, [illegible]
[illegible] vacuo [illegible]
[illegible]

[illegible] in suo dictionario [illegible] in plano [illegible]
[illegible] fluidi [illegible]
[illegible] motus [illegible] plano [illegible]
motus [illegible] plano [illegible]

[illegible] in plano [illegible] motu non [illegible]

[illegible] mobilissimo, [illegible] fluidi [illegible]
[illegible] esse [illegible]
[illegible] in plano [illegible]
[illegible] motum [illegible] fluidi [illegible]
[illegible] corpus non posse [illegible] moveatur [illegible]
[illegible] motum [illegible] universo [illegible]
[illegible] impossibile esse [illegible] motus [illegible]
[illegible] plano perfecto esse impossibilis, [illegible] universo [illegible]
plano perfecto [illegible] esse motus ullus possibilis

[illegible] motus [illegible] fluidis [illegible]
[illegible] esse, [illegible] fluidis [illegible]
[illegible]
[illegible] non [illegible]
[illegible] fluidis [illegible] motum possibilitatem [illegible] esse [illegible]

[illegible] ut in medio illo [illegible]
[illegible] mobilissimo, et [illegible] fluidi [illegible]
[illegible] possibile [illegible]
[illegible] motum [illegible] impossibilitatem [illegible] impossibilitatem [illegible]
[illegible] a fluido [illegible] plano [illegible]
[illegible]
[illegible] auctoritate, [illegible] rationes, [illegible]
[illegible]
[illegible] Gassendus, [illegible]
[illegible]

[illegible] impossibile [illegible]
[illegible]
[illegible] determinare, [illegible]
[illegible]
[illegible] motum [illegible]

Hac constat quod idem vaporis etiam sphaeras aquae particulas spatiolis hexagonalis, et horum cum plurimis partibus parvis aquae non posse sine negare parte vacuorum spatiolorum quae occupandi, per aquae compressionis esse expertem, nec aquam ... At enim motus illo in vase haberetur ... aqua illa principio condensaretur vel comprimeretur ... et comprime, et condensari ... in hac ... quae scilicet aquae ... [illegible] ... impossibile ... defugit ... aqua ... sare, et comprimi ... insensibiliter ... condensationem ... in hac ... elasticitate ... quid probat ... ab insensibili condensatione et compressione aquae ... et a ... condensatione, et compressione aeris in aqua ... motus globi in ... experimento ... Bardini experimentum non probat possibilem motum in plano perfecto.

f. 13. [illegible] ... in questa ipotesi ... moto ... nuovamente ... corpo ... girare, o rivoltare ... [illegible] ... in un piano ... [illegible] ... nella natura ... moto in perfetto piano ... [illegible] ... motus ... corpora ... motus circularis ... motus proprius et communis ... [illegible] ... perfetto moto ... [illegible] ... motus ... compressionis et propriis ... propositione ... [illegible]

12. [illegible] ... moto ... observatione ... [illegible] ... perfectam ... [illegible] ... corporis ... motus ... [illegible]

[illegible] ... corporis ... partes ... corpus ... in ... plano moveri ... [illegible] ... in vacuo.

[illegible] ... corporum partes ... corpora ... per ... [illegible]

[illegible] ... non est ... corporis ... resistentia ... nulla est gravitas ... [illegible]

[illegible] ... partes ... [illegible] ... corpora ... motu ... [illegible] ... corporis ... aequali ... velocitate ... [illegible] ... in eodem corpore ... motu ... [illegible] ... partes ... [illegible] ... in perfetto motus non ... [illegible] communibus ...

[illegible] ... corporis ... [illegible] ... motus ... [illegible] ... corpore ... partes ... [illegible]

[illegible] superficie [illegible] corporum [illegible] resistentia [illegible] superficiei [illegible] per poros [illegible] externos [illegible] superficiei internae [illegible] partium internarum [illegible] corpore [illegible]

Ad 3. Principio [illegible] non esse gravem [illegible] inferius [illegible] gravitate [illegible] non esse [illegible] corpora [illegible] resistentia [illegible] a gravitate [illegible] ut [illegible] omnia [illegible] [illegible] motum [illegible] in pleno perfecto motus non [illegible]

[illegible] in universo [illegible] corporea [illegible] extensio, sed etiam incorporea [illegible] [illegible] corporea [illegible] corpora [illegible] corpora [illegible]

[illegible] [illegible] corpora [illegible] proprietates habere [illegible] [illegible]

[illegible] sufficientem rationem [illegible] figurae corporum [illegible] in corporibus esse [illegible] vacuum [illegible] in corporibus [illegible] vacuum non [illegible]

[illegible] [illegible] spatium vacuum [illegible] [illegible] imaginationis [illegible] spatium vacuum [illegible] corporibus [illegible] [illegible] vacuum [illegible] corporum [illegible] habere [illegible]

[illegible] sensationes [illegible] corporum [illegible] corporis [illegible] corporis [illegible] figurae [illegible] proprietatibus corporum negative potius quam positive [illegible] figura [illegible] in solidis [illegible] corporibus [illegible] [illegible] sufficiens ratio figurae corporum [illegible]

11 De [illegible] occurrit [illegible] de spatio corporeo [illegible] ad [illegible] philosophi omnes [illegible] corporum principia statuere materiam [illegible] et formam, quam [illegible] [illegible] [illegible] [illegible] materialis sit [illegible] [illegible] 205 [illegible] [illegible] [illegible] opiniones [illegible] [illegible] [illegible]

12 [illegible] ita appellati, quod [illegible] de philosophicis quaestionibus [illegible] [illegible] disputare [illegible] Aristotelem [illegible] philosophos graecos [illegible] materiam cum Aristotele [illegible] [illegible] quod nec quale nec quantum, [illegible] determinatum, sine materia [illegible] formam [illegible] [illegible] formam vero [illegible] substantialem [illegible] [illegible] et substantialem formam [illegible] quod [illegible] substantiam [illegible] [illegible] materia [illegible] [illegible] formas accidentales, [illegible] corporis [illegible] formis [illegible] formae [illegible] accidentalis [illegible] corporis [illegible] [illegible] formas [illegible] propriae formae [illegible]

13 [illegible] Peripatetici [illegible] Aristoteles [illegible] principia contraria [illegible] [illegible] privationem [illegible] [illegible] [illegible] [illegible] peripateticorum [illegible] [illegible] [illegible] schola [illegible] pro philosophicis [illegible] [illegible] peripateticorum definitionibus non [illegible] principia corporum [illegible] [illegible] chimaerica [illegible] [illegible] materia et forma [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] forte intelligunt, quid [illegible]

14 Democritus [illegible] [illegible] corporum materiam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] combinatis [illegible] corporum [illegible] [illegible] corpora, et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] principiis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] requirerent

15 Procedendum [illegible] Epicurus, qui [illegible] atomos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Gassendus [illegible] [illegible] [illegible] [illegible] academia [illegible] [illegible] [illegible] Epicuro [illegible] atomos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] atomos [illegible] [illegible] [illegible] [illegible] atomos [illegible] [illegible] [illegible] [illegible] 2

[illegible] Porro [illegible] [illegible] [illegible] [illegible] Democritum et Epicurum [illegible] [illegible] Democritus, Epicurus et Gassendus corpora statuere [illegible] [illegible] de principiis corporum non solvunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] intelligi [illegible] systemate hac ratione

1. [illegible] [illegible] [illegible] philosophantes [illegible] [illegible] ignem, aerem, aquam, terram [illegible]
[illegible] corpora [illegible] elementares dixisse, contra [illegible] Chimicos [illegible]
[illegible] sal, sulphur, Mercurium [illegible] aquam [illegible] [illegible] in principia
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible], [illegible] systemate [illegible] quaestioni satisfacere posse [illegible] [illegible] [illegible] [illegible]
[illegible], [illegible] forma [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]

2. [illegible] Renatus Cartesius, philosophus et mathematicus [illegible] [illegible] saeculo [illegible] novam [illegible]
[illegible] philosophiam universam [illegible] ita novam [illegible] [illegible] corporum, [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in principium [illegible] [illegible] [illegible] [illegible] materiae [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in particulas [illegible]
[illegible] [illegible] [illegible] [illegible] figurae, [illegible] [illegible] particulas [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in vorticem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sunt stellae fixae, cometae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] materiae [illegible] [illegible]
[illegible] [illegible] [illegible] globulos, [illegible] particulae [illegible] [illegible] [illegible]
[illegible] [illegible] constituere, et [illegible] [illegible] crassiora [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] materia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] vortices, globulos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] materiam [illegible] [illegible] materia triplici, [illegible] [illegible] [illegible]
corpora [illegible] globulosa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] triplex [illegible] materiae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] philosophi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] materia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] materia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

3. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] philosophica [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] philosophiam [illegible] [illegible] experientia [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] de primis corporum elementis [illegible] [illegible] [illegible] [illegible]

esse particulas extensas ex iis primas, ut eas insuperabiles, mobiles, easdemque [illegible] variis figuris, [illegible] locis, sensatis et; et diversis corporum formis constituendis, diversarum specierum [illegible] [illegible] motibus [illegible] [illegible] [illegible] variae corporum vicissitudines, [illegible] et [illegible] universi [illegible] quaestione quibusque [illegible] [illegible] [illegible]
Nondum non explicat, quare nec ipse quaestionem proprie solvit.

23 [illegible] [illegible] homo Germanus, qui ut nullam certitudinem [illegible] conditionis partes habet continuo [illegible] [illegible] versatus non [illegible] [illegible], Metaphysicas [illegible] [illegible] [illegible] Monades, sive substantias omnino simplices, indivisibiles, ac donatas vi activa. Harum [illegible] [illegible] genera [illegible] [illegible], quod [illegible] [illegible] representat in se omnia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Monadum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] distincte in se [illegible], ut sunt [illegible] [illegible] imperfectum, quod [illegible] [illegible] [illegible] in se [illegible] [illegible] [illegible] Monades omnes [illegible] [illegible] Monades [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] omnes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in universo [illegible] plane similia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], ut singulae Monades [illegible] [illegible] continuo [illegible] Monades [illegible] [illegible] [illegible] [illegible] [illegible] agere [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] differunt [illegible] figura, [illegible] etc.

Sed [illegible] hoc [illegible] [illegible] maxime a Wolfio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Monadum corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ratione [illegible] [illegible] [illegible] [illegible] corporis compositionem [illegible] [illegible] [illegible] explicari: nam [illegible] substantiae [illegible] [illegible] [illegible] [illegible] [illegible] Monades [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Monades omnes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

2 [illegible] Josephus Boscovichius [illegible] [illegible] corporum [illegible] philosophiae naturalis [illegible] [illegible] [illegible] anno 1758 [illegible] [illegible] Geometrisches [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Metaphysicae [illegible] [illegible] continuitatis legem in natura [illegible] [illegible] [illegible] natura [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in collisione corporum [illegible] corporum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Si aliens animadvertit [illegible] repulsivas vires paries adhiberi velocitati [illegible] undis [illegible] et subeat in eas quamque satis in extinctione velocitatis [illegible] deducit primum vires repulsivas elementorum augeri in infinitum debere in distantiis imminutis in infinitum, et immediate, et materiam contactum repugnare, nedum esse corpora, sed etiam esse elementa corporis quae repellunt se mutuo [illegible]: elementa ipsa simplicia esse inextensa et impenetrabilia: simplicia quia si extensa, [illegible] et elementa plura invicem [illegible] possent [illegible] continuo [illegible] infinitis viribus repellerent se mutuo, et continuitas ac compositio [illegible] continuitatem destrueret, impenetrabilia: [illegible] sed naturae viribus quae finita [illegible] sint [illegible] repulsivas, quibus elementa [illegible] impediant se invicem a mutuo contactu, mutuaque compenetratione.

Ut autem [illegible] corporis constitutionem ex elementis Boscovichius explicet, observat elementa corporum [illegible] repellere se invicem, sed etiam attrahere [illegible] repulsivas elementorum vires, quae [illegible] in [illegible] distantiis in infinitum imminutis, [illegible] distantiis [illegible] attractivas [illegible] distantiis paulo auctis [illegible] in repulsivas [illegible] per vices plurimas in minimis distantiis [illegible] distantiis attractivas [illegible] [illegible] ad [illegible] gravitatis [illegible] [illegible] ad [illegible] quae [illegible] in una parte [illegible] ad [illegible] accedens, eamque secans, [illegible] in parte opposita [illegible] in [illegible] ad [illegible] hyperbolae [illegible] in ratione reciproca dupl. [illegible] distantiarum: [illegible] elementa [illegible] invicem [illegible] distantiae [illegible] ad repulsionis distantiam [illegible] ad repulsionem. [illegible] pluribus [illegible] [illegible] limitibus sint, corpora [illegible] ad mutuam repulsionem [illegible] vires [illegible] extensione non [illegible] ad [illegible] spatii [illegible] [illegible] elementa simplicia [illegible] tamen in mutuo contactu sint [illegible] elementa [illegible] invicem [illegible] figuras et elementorum dispersionem [illegible] longitudinem, et profunditatem ac limitibus circumscripta a quibus figura determinatur [illegible] [illegible] variis limitibus virium in quibus [illegible] et [illegible] sint [illegible] [illegible] et [illegible]: [illegible] ex pluribus [illegible] invicem [illegible] corpora [illegible] per varias [illegible] affectionibus figurae, molis, densitatis [illegible] quibus [illegible] esse [illegible].

Hoc [illegible] Boscovichius [illegible] elementa corporis, et corporum [illegible]. [illegible] autem [illegible] [illegible] [illegible] arbitrium [illegible], et [illegible] satis probabilis [illegible] [illegible] in ea reperiri, quae difficultatem probare possunt: [illegible] vero et [illegible] [illegible] principiis fundamenta [illegible] continuitatis, et lex virium repulsivarum, quae in attractivas [illegible] continuitatis legem [illegible] in natura [illegible] [illegible] [illegible] virium [illegible] [illegible] in [illegible], et [illegible] in [illegible] repraesentat attractionis [illegible] vires [illegible] [illegible] [illegible] [illegible] autem [illegible] [illegible] [illegible] ostendit [illegible], [illegible] potest, quod intelligi [illegible] possit, quae [illegible] vis [illegible] quae [illegible] [illegible] repulsionis, nunc attractionis possit producere.

[illegible] his [illegible] satis constat, quam difficilis sit [illegible] [illegible]: [illegible] quae in quaestione obscura probabilia videri possunt [illegible] [illegible] sunt [illegible] elementi, quibus corpora componantur [illegible] [illegible], [illegible]

-sica, et Mecanica alia Metaphisica. Elementa corporum sensibilia definiri solent ea, quæ [illegible] 2
in corporibus considerantur ex quibus per primum, et immediatam naturæ mixta ipsa resolvuntur [illegible]
neque Phisica, seu Mecanica sunt et, quæ nec naturæ viribus, nec [illegible], nec [illegible]
sed ex quibus tamquam principiis [illegible] et radicibus esse censentur [illegible] primo natura operante compo-
sita, et in quæ ultimo resolvuntur, sive ea sunt ex quibus natura generat [illegible] et in quæ resolvuntur
sensibilia [illegible] elementa, et corpora simplicia [illegible]. Metaphisica sunt ea, ex quibus [illegible]
et in quæ resolvi per [illegible] possunt elementa phisica.

1º Si quæstio sit de principiis sensibilibus ea videntur esse quæ a chimicis statuuntur, [illegible]
compertum est corpora omnia, quæ mixta dicuntur, sive animalia, vegetabilia, et mineralia [illegible] 2
[illegible] in quinque [illegible], [illegible] nempe salem, sulphurem, Mercurium, aquam, et terram. [illegible]
[illegible] huiusmodi materia, recte diceris terram, quæ sunt quasi subiectum [illegible] sal [illegible] sulphur
et Mercurio, eorumque varia mixtione, et dispositione [illegible] [illegible] et diversitas [illegible]
[illegible] resultat. Aqua vero habetur ut vinculum, quo materies, et forma invicem colligata detinentur.

2º Si autem quæstio de principiis corporum phisicis, et Mecanicis movetur, [illegible] quæ [illegible]
[illegible]; prima materia corporum [illegible] corpuscula [illegible], [illegible] viribus natur[illegible]
[illegible] [illegible] differentia invicem [illegible] figura, [illegible] mecanicis [illegible]
[illegible] viribus attractionis, gravitatis, soliditatis, inertiæ, [illegible] formam vero [illegible] varia [illegible]
corpusculorum [illegible], et dispositiones. [illegible] in corporibus corpuscula [illegible] corpora [illegible]
in partes [illegible], quæ [illegible] corpora [illegible] corporis [illegible]
[illegible] diversitate mecanicarum [illegible] viribus [illegible] phisicorum elementorum [illegible]
[illegible] corpuscula [illegible] naturæ viribus divisibilia: ergo nec se invicem, nec [illegible] naturæ operante [illegible]
[illegible] naturæ operationi [illegible] dividi [illegible] possunt. [illegible] prædicta [illegible]
[illegible] attractionibus, et viribus, possunt natura [illegible] majores, et corpora [illegible]
[illegible] resolvi debent corpora, [illegible] naturæ viribus resolvuntur: [illegible] a variis huiusmodi corpuscu-
lorum unionibus et dispositionibus posse omnia diversarum specierum resultare corpora, [illegible]
[illegible] oriuntur [illegible] et dispositione [illegible] [illegible]
[illegible] in vapores elevantur et [illegible] nubibus [illegible]
[illegible] et ex aere [illegible] pluviam, [illegible]
[illegible] nivem, [illegible] grandinem [illegible]
[illegible] ingrediuntur corpora [illegible] corporum [illegible] nutritionem, et [illegible]
[illegible] eorum partes [illegible], et [illegible].

3º Tandem si quæstio principiorum Metaphisicorum [illegible] Deus [illegible]
[illegible] nobis accidentia et [illegible] corporeæ elementa
[illegible] corpora [illegible] corporum principia phisica non principia corporum Metaphisica; [illegible]
[illegible] corporum [illegible] formam a viribus [illegible]
[illegible] possint [illegible] invicem se diversas moleculas, [illegible] diversa [illegible]
phisica [illegible] naturam [illegible]
[illegible] elementa vel [illegible] species [illegible]
[illegible] Sed jam hæc de re satis

Dissertatio Secunda.

De mundi origine

[illegible] de [illegible] determinare [illegible] quibus mundus [illegible]
[illegible] a quo [illegible] Dei [illegible]

Mundus non est ens a se

2.1 Prob. Ens a se est ens necessario existens et immutabile simplicissimum per num. 2a [illegible] sed mundus [illegible] non habet necessario existentiam, quippe cum [illegible] intelligo quod mundus hunc ita existere [illegible] ut non potuerit ipsum non existere; et, partes ejus omnes ita positas contemplando, et sapientem quidem sint constitutae, non tamen existere necessario, quippe nulla in eo apparet repugnantia, quod [illegible] non quidquam nec [illegible] [illegible] satellites, [illegible], aut [illegible] [illegible] in [illegible] [illegible] in [illegible] motu [illegible], et omnibus [illegible] est immutabilis, ut continuas mutationes in [illegible] [illegible] nec est simplicissimus ut [illegible] [illegible] [illegible] compositus: [illegible] mundus non est a se.

2.2 [illegible] non mundus saltem materia aut atomi, aut materiae elementa possunt esse entia a se. [illegible] hoc plane nego, nam materia [illegible] sit est compositionis [illegible] [illegible] [illegible]. et [illegible] divisibilis est ut partibus compositum; [illegible] Materies non erit ens a se, ut destituta perfectionibus intelligentiae et simplicitatis quae enti a se perfecto debent omnino convenire, per num. 2a [illegible].
Quoad atomi et elementa materiae, nec omnia et singula sunt entia a se, ut ens a se non [illegible] esse [illegible] per num. 2a [illegible]; nec [illegible] [illegible] [illegible] elementorum complexio est ens a se, ut [illegible] singula [illegible] sunt entia ab alio, et [illegible] elementorum [illegible] [illegible] [illegible] [illegible] per num. 3a [illegible]: [illegible] [illegible] [illegible] [illegible] aut ipsa elementa sunt entia a se [illegible] materia et elementa.

Mundus [illegible] fuit in tempore [illegible] creatus ex nihilo

2.3 Prob. Mundus non est a se per num. 2a ergo fuit ab alio productus, porro vel fuit productus ex nihilo, nempe creatus, vel ex materia praeexistente [illegible] non potuit ex materia praeexistente [illegible] [illegible] vera producta, [illegible] [illegible] esset, et sic in infinitum. [illegible] mundus fuit ab alio [illegible] [illegible] [illegible] [illegible], a quo productus [illegible] non est ens [illegible] existentia [illegible] Deus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] mundum creare ex nihilo, et in pulcherrimo [illegible] et constanti ordine disponere [illegible] mundus a Deo [illegible].

3a [illegible] mundum creavit libere et in tempore, libere quidem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per [illegible] [illegible] [illegible] nec ullo pacto pertinebat ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nec [illegible] ulla [illegible] [illegible], ut [illegible] [illegible] [illegible] necessario creasset mundum ad instar necessariae causae in mundi creatione agere debuisset [illegible] et totis suis viribus [illegible] [illegible] et omnibus perfectionibus, quas potuisset [illegible] [illegible] [illegible] debuisset, hae vero sunt aperte falsa [illegible] et in tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] habere, ut mundus est nullo pacto aeternus esse possunt [illegible] [illegible] debent principium [illegible] in tempore semper [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] obscura [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] successionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aeternitatis [illegible] ut temporaneum [illegible] [illegible] mundus [illegible] [illegible] [illegible].

[illegible] rationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] de tempore, modo et circumstantiis [illegible] mundi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] partes [illegible] [illegible] [illegible] mundum [illegible] [illegible] habuisse [illegible] [illegible], et sapienter [illegible] aut [illegible] [illegible] si mundum [illegible] [illegible] consideremus [illegible] [illegible] [illegible] [illegible] [illegible] indicat [illegible] [illegible] aut [illegible] [illegible] [illegible], [illegible] traditiones [illegible] non [illegible] [illegible] perfectionem, [illegible] amplitudinem [illegible] aut [illegible] non [illegible] [illegible] productiones [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] observationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nationes [illegible] [illegible] [illegible] mundi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] probabilibus; et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] a veritate aberrat [illegible] [illegible]

[illegible]

[illegible]

3 [illegible] Mundum a Deo creatum esse [illegible]

[illegible] nihilo [illegible] impossibilibus [illegible]

[illegible]

2 [illegible]

3 [illegible]

4 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

6 [illegible] Mundum [illegible] Divina potentia [illegible]

Cont. 4

[illegible]

[illegible]

Tandem quod spectat historiam naturalem [illegible]

[illegible]

Denique quod spectat observationes astronomicas [illegible]

[illegible]

[illegible]

[illegible]

[illegible] esse posset sunt necessaria

[illegible]

[illegible]

[illegible] principio [illegible]

[illegible] manifesta [illegible]

[illegible]

De naturali historia [illegible]

[illegible]

[illegible]

[illegible] veterum coloniarum [illegible] temporum [illegible]

[illegible] quia [illegible] tempore [illegible]

[illegible] majorum [illegible]

[illegible] Britannia [illegible] ultra [illegible]

[illegible] veterum colonia[illegible] quod non [illegible] temporis [illegible]

[illegible] et [illegible]

[illegible] Ionia [illegible] aut [illegible] et [illegible]

[illegible] legem [illegible] Aegyptios [illegible]

[illegible] coloniae [illegible] pastores [illegible] montes [illegible]

[illegible] quae aut majora ad [illegible] spatia [illegible]

[illegible] oblivionis [illegible]

[illegible] astronomis [illegible] ut [illegible]

[illegible] immensitate [illegible]

[illegible] mundi [illegible]

33 [illegible] argumentum [illegible] derivatum non potest [illegible]

1 [illegible] philosophi, nec [illegible]

2 [illegible] mortalium [illegible] originis memoria [illegible]

[illegible] traditionem [illegible] in posteros [illegible].

3 [illegible] gentium de mundi origine [illegible]

[illegible] philosophi qui aeternitatem [illegible]

[illegible] rationi non repugnantem [illegible]

[illegible] nec tot [illegible] auctoritatis [illegible] valeant [illegible]

[illegible] mortalium primi [illegible] mundi natura [illegible]

[illegible] creatione [illegible] creata [illegible] telluris vestigia [illegible]

[illegible] omnia [illegible] telluris [illegible]

[illegible] vivere [illegible] mortalium primi ut [illegible]

[illegible] originem [illegible] telluris contemplatione [illegible]

[illegible]

34 [illegible] de mundi origine [illegible] duo argumentorum [illegible]

[illegible] metaphysicum [illegible] physicum [illegible]

[illegible] si mundus non ab aeterno [illegible] mundus [illegible]

[illegible] effectus [illegible] causa [illegible]

[illegible] necessario [illegible] mundus [illegible]

[illegible] structura et pulchritudo mundi [illegible]

[illegible] non potuerit [illegible] satis [illegible]

[illegible] contemplatione [illegible]

[illegible] Dei

Sed iam [illegible]

Dissertatio Tertia

[illegible]

35 [illegible] mundi [illegible] descriptionem [illegible] astronomia [illegible] arbitror [illegible]

haud abs re [illegible] hoc loco [illegible]

[illegible] cosmologicis [illegible]

[illegible] ut [illegible] systematis non [illegible]

[illegible] hoc grossiori quodam modo persequemur [illegible] observantes astronomici.

36 [illegible] systematis nostri mundani sol quasi [illegible] centrum [illegible] occupat [illegible] ignea [illegible] corpora [illegible], alia quae planetas primarios nominant, nempe proximus soli Mercurius, tum Venus, deinde Tellus nostra, tum Mars, post [illegible] Saturnus, [illegible] quae dicuntur cometae, [illegible] nec [illegible]. Corpora omnia opaca sunt et telluri nostrae similia, [illegible] quia lucem a sole [illegible] ad nos [illegible] a sole distantiae [illegible] stellae fixae [illegible] ut hunc [illegible] soli [illegible]

35 [illegible] circa solem primarii planetae [illegible] circa primariorum nonnullos alia minora [illegible] revolvuntur, quae planetae secundarii vel satellites appellari solent, [illegible] circa tellurem [illegible] circa Jovem quatuor, [illegible] circa Saturnum [illegible] Saturnales satellites [illegible] suos [illegible] comitantur [illegible] circa solem, et [illegible] primarii corpora opaca [illegible] et telluri nostrae similia

37 Porro planetae primarii ac cometae [illegible] circa [illegible] moveantur, et secundarii planetae [illegible] circa primarios moventur, [illegible] leges servant [illegible] in primariorum [illegible] motibus [illegible] observationibus [illegible], ac demonstratae leges Keplerianae [illegible] [illegible]

38 [illegible] Planetae [primarii] ac cometae circa solem, secundarii vero circa primarios [illegible] [illegible] [illegible] primarii [illegible] circa solem, et secundarii circa primarios [illegible] [illegible] similes cometae [illegible] [illegible], ad parabolam [illegible] [illegible] quae circa solem planetae primarii et circa primarios secundarii describunt curva [illegible] figura 1, [illegible] quae describunt circa solem cometae [illegible] [illegible] in fig. 2 [illegible] sequentes [illegible] definitiones

1 Curva [illegible] dicitur [illegible] orbita planetae vel cometae

2 Linea [illegible] quae orbitam [illegible] [illegible] distantia [illegible] [illegible] major orbitae

3 [illegible] axis major [illegible] orbitae

4 Linea [illegible] quae transit per [illegible] perpendicularis majori axi [illegible] minor [illegible] orbitae.

5 [illegible] [illegible] in axe majori [illegible] [illegible] centro [illegible] distantia [illegible] [illegible] nunc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

6 [illegible] [illegible] orbitae [illegible]

7 [illegible] non occupat centrum [illegible] [illegible] primarii [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sive [illegible]

8 Curva [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

in quo corpus circa [illegible] reperitur propius vel remotius a [illegible] dicitur Perigaeum vel Apogaeum; in

sed vero Orbita, in quo corpus quodcunque reperitur propius vel remotius a Tellure dicitur peri-

geum vel Apogeum, hinc patet in Orbibus Planetarum Apsides ad Perihelio et Aphelio converti, in Lunari Apsides converti in loca Perigaei et Apogaei

9 Si in loco S in quo est Sol vel alius [illegible], ut [illegible] primarius aliquis relate ad secundarios [illegible] quaevis Orbitae puncta A, a, [illegible] [illegible] S M, S P, linea ipsa appellantur radii vectores, spatium autem M S N a radiis vectoribus comprehensum dicitur area quam corpus in orbita describit [illegible] in loco S constans integram vel [illegible] orbitam [illegible] [illegible]

10 Tempus quo corpus quodcunque unam integram revolutionem perficit, sive quo totam peragit orbitam appellatur corporis ejus Periodus.

40 Orbitas facile patet circa [illegible] [illegible], sive ut [illegible] [illegible] [illegible] [illegible] [illegible] quibus, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sol, [illegible] [illegible] orbitis [illegible] [illegible] occupat M Mercurius, V Venus, T Tellus, quae [illegible] in [illegible] [illegible] orbitam [illegible], M Mars, J Jupiter, et Saturnus [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] quas circa ipsos secundarii respectivi [illegible] [illegible] [illegible] [illegible] absidas Orbitarum [illegible], et majores axes [illegible] non esse in eadem recta, et orbitas omnes non jacere in eodem plano, ut [illegible] a nobis sunt [illegible] [illegible] gratia [illegible] [illegible]. [illegible] [illegible] omnia Orbitarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Orbita [illegible] [illegible] [illegible] orbitae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nodi.

41 [illegible] Planetae primarii, ac cometae circa solem, secundarii vero circa primarios [illegible] [illegible] ut areas [illegible] temporibus proportionales [illegible] in [illegible] [illegible] [illegible] in [illegible] [illegible] suis orbitis designant, [illegible] radius vector S P [illegible] [illegible] area M S N [illegible] [illegible] [illegible] [illegible] a corpore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], ut area M S P sic [illegible] [illegible], ut [illegible] [illegible] [illegible] [illegible] M S N ad tempus quo [illegible] [illegible] A [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tempore [illegible] area [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solet. [illegible] [illegible] radius vector [illegible] [illegible] [illegible] in orbita [illegible] sunt proportionales temporibus. [illegible] [illegible] in primariis planetis observare [illegible] Keplerus ex observationibus, quas maxime de motibus Martis [illegible]: [illegible] observare in [illegible] [illegible] [illegible] Astronomi postmodum [illegible] [illegible] Joviales, et Saturnales [illegible] [illegible] [illegible] [illegible] circa Jovem, ac Saturnum [illegible] in Orbitis [illegible] [illegible] [illegible] [illegible] [illegible], in quo spatia descripta sunt ut tempora. [illegible] vero ad lunam [illegible] [illegible] [illegible] apparentis [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] observationibus [illegible]

42 Ex lege hac sequitur quod primarii ac cometae circa solem, et secundarii circa primarios [illegible] [illegible], ut eo magis motum [illegible] [illegible], quo [illegible] [illegible] [illegible] magis [illegible] ad [illegible] [illegible] [illegible] magis [illegible] [illegible] ab Absidibus [illegible] [illegible] [illegible] [illegible], nec enim equali tempore [illegible] descripta prope A [illegible] [illegible] [illegible] [illegible] [illegible] area [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] prope P, sive [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible]

porro hec [illegible] astronomi observaverunt et inde deductum est [illegible], [illegible] corpora [illegible], et [illegible] in suis motibus [illegible] leges aliquantulum aberrent, [illegible] ut aberrationes [illegible] a causis [illegible] proveniant [illegible] ab attractione [illegible] ut in Astronomia demonstrabimus, [illegible] relata ad [illegible] corporum leges [illegible] solare [illegible]
[illegible] primarii planetae et cometae circa Solem, secundarii circa primarios [illegible] tempora periodica in [illegible], sive mediocrium distantiarum [illegible] corpora [illegible] quod revolvuntur, [illegible] [illegible] quadratis temporum [illegible] revolutionem circa Solem, et ad [illegible] temporis quo [illegible], [illegible] revolutionem [illegible] est [illegible] distantia mediocris Saturni a Sole ad [illegible] distantiam mediocrem Jovis a Sole [illegible] Saturnus annis triginta [illegible] revolutionem [illegible] [illegible] distantia Saturni [illegible] distantiam mediocrem Jovis a Sole, [illegible] quinque ad quinquaginta [illegible] porro calculo [illegible] ex mediocribus [illegible] [illegible] reperies cum quadratum [illegible] ad quadratum [illegible] cubus [illegible] quinquaginta [illegible], sive [illegible] quadraginta quatuor, [illegible] [illegible] mille [illegible] quinque [illegible] [illegible] distantias [illegible] primariorum circa [illegible] et secundariorum similiter [illegible] tempora periodica [illegible] distantias mediocres [illegible] [illegible] habere [illegible] tabulis [illegible]

[illegible] Primarii	[illegible]	Tempora [illegible]	[illegible]	Tempora Periodica accurata
[illegible]	[illegible]	[illegible]	[illegible]	87ᵈ. 9692
[illegible]	7	[illegible]	[illegible]	224ᵈ. 6176
[illegible]	11	[illegible]	100000	[illegible]
[illegible]	1	[illegible]	[illegible]	686ᵈ. 9785
[illegible]	[illegible]	1 [illegible] 0.ᵈ	520096	4332ᵈ. 514
[illegible]	[illegible]	30.[illegible] 0.ᵈ	954006	[illegible]

Comites Satell. Jovis	Distantia a centro Jovis in semid. Jovis	Tempora Periodica
1. intimus	5. [illegible]	1ᵈ 18ʰ 2[illegible]ʹ 34ʺ
2.	9.	3ᵈ 13ʰ 11ʹ 42ʺ
3	[illegible]	[illegible]
4 [illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	1 [illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Extimus	[illegible]	[illegible]

latione animadverte in primariis planetis licet dicti coeli horum numero accretione [illegible] superatione in corpore periodica, et deficientia non possunt ut in exemplo a nobis allato [illegible] in corpore addiscuntur in his aut omnino manifesta fit tertia [illegible].

44 Praeter motum indicatum, quo corpora mundi systematis omnia suis exceptis [illegible] circa proprium et centrum revolvuntur, aliud etiam motum habent singula, nam fixis exceptis ac sole, quae circa propriam axem revolvuntur; et quemadmodum propter telluris [illegible] motus dicitur motus ipsorum annuus, ita motus hic alter dicitur motus diurnus vel rotationis. A motu annuo telluris oritur apparens motus annuus solis; a motu vero diurno telluris, qui fit ab occidente in orientem, oritur motus, quo astra omnia videntur diebus singulis ab oriente in occidentem unam revolutionem perficere circa tellurem ipsam. Illud a motu telluris fit, ut sol atque omnia mutent positionem suam relate ad nos; quia vero nos motum telluris nobis communem non sentimus, hinc mutationes illas positionum a motu solis astrorumque [illegible] et ob motus telluris sol et astra moveri nobis videntur, non secus ac videntur [illegible] littora [illegible] qui feruntur in navi mota, motumque navis non sentientes. Sed haec circa mundi ordinem attigisse breviter sufficiat.

45 Antequam vero de [illegible] tractationem de legibus cosmologicis accedamus, juvat quatuor referre regulas philosophandi, quas [illegible] tradit. Sed enim [illegible] occurrere debeamus, ut definitiones aliquas [illegible], quae alii de motu [illegible] dissertatione tradere solent, nos veluti corollaria deducemus ex his, quae de cosmologicis legibus demonstrabimus.

46 Regula prima est: causas rerum naturalium non plures admitti debere, quam quae et verae sint et earum phaenomenis explicandis sufficiant. Duas habet haec regula partes: prima non [illegible] causas esse [illegible] convenientia et repugnantes causae [illegible] hypotheticae et possibiles [illegible] quamvis explicandis phaenomenis [illegible] videantur, at philosophi est [illegible] veras quae causas [illegible] non possibiles; hypotheses vero [illegible] non repugnantes possibilitatem causae [illegible] non necessitatem; igitur hypotheses, quae nulla ratiocinatione, nullo experimento [illegible] confirmantur, licet possibiles, a philosophia eliminandae sunt. [illegible] quod astronomi potissimum praestiterunt, qui et caelestia phaenomena [illegible] causas conjiciendo investigare possunt [illegible] altera regulae pars praescribit, ut non vera effectus causa [illegible] ipso producendo, explicandoque [illegible] experimenta [illegible] possibiles rationem et inutiles [illegible] pluribus non [illegible] causis, ubi una causa sufficit.

47 Regula 2 est: effectuum naturalium ejusdem generis eaedem assignandae sunt causae, quatenus fieri potest; ita nemo negabit unam eandemque causam esse respirationis in homine et in bestiis, descensus lapidum in Europa et in America etc. Ex omnibus hujus regulae [illegible] analogia [illegible] causarum [illegible] naturae [illegible] varias [illegible] causa [illegible] plures [illegible] effectus [illegible] similitudine analogica [illegible] facile [illegible], quod [illegible] in philosophia [illegible]

48 Regula 3 est: qualitates corporum quae intendi et remitti nequeunt, [atque] corporibus omnibus [illegible] tunt, in quibus experimenta instituere licet, pro qualitatibus corporum universorum habendae sunt. [illegible] [illegible] omnis pars physica [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporibus universis [illegible] affirmare. [illegible] vero qualitates quae intendi nequeunt et remitti [illegible] perseverant eaedem quibuscunque corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporum pro qualitatibus haberi debent [illegible] [illegible] [illegible] [illegible] [illegible] nequeunt, [illegible] [illegible] a corporibus [illegible] [illegible] [illegible] [illegible] omnibus [illegible] qualitates [illegible] quae intendi possunt et remitti [illegible] gravitas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in corporibus omnibus [illegible] experimenta, et observationes [illegible] [illegible] corporibus omnibus tribui [illegible] qualitates corporum experimentis [illegible] [illegible] [illegible] et contra [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] observationi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] circa solem [illegible] [illegible] in cometis [illegible] [illegible] observationum quae aut nullo modo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] possunt

49 Reg. 4 est: Propositiones in philosophia experimentali per inductionem collectae non obstantibus contrariis hypothesibus pro veris aut accurate aut quam proxime haberi debent, donec [illegible] occurrerint phaenomena per quae aut accuratiores reddantur aut exceptionibus obnoxiae [illegible] [illegible] [illegible] in quaestionibus [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] methodus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] observationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] inductionem [illegible] [illegible] conclusiones [illegible] hypotheses [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] debere [illegible] [illegible] [illegible] [illegible] demonstrat [illegible] [illegible] propositionibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] philosophiam [illegible] [illegible]

50 [illegible] quod spectat definitionem motus in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] de existentia motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus sit, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Ex his autem haec possumus deducere

51 [illegible] motu quodlibet [illegible] spatium [illegible] [illegible] relativus motus corporum quae [illegible] [illegible] [illegible] [illegible] translatio corporis [illegible] [illegible] [illegible] motu quocunque corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sive distantia [illegible] [illegible] quod a corpore [illegible] [illegible] spatium a corpore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a quo corpus [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible]

52 Motum quemcunque [illegible] tempore fieri, [illegible] corpus [illegible] pluribus motibus eodem tempore [illegible] [illegible] pluribus corporibus [illegible] habere et [illegible] ad plurima possit [illegible]

53 Corpus quod [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in ipso autem corpore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Massa corporis, est quantitas inertis materiae, quae sub volumine corporis ipsius continetur; volumen corporis dicitur spatium quod corporis materies occupat, vel vacuis interpositis.

Velocitas est dispositio corporis ad spatium certo tempore conficiendum.

Vis motrix est illa vis aut efficacia quae velocitatem creat in corporibus, quid ea sit, aut unde ipsius mensura desumenda apud philosophos definitum habemus nondum. Quod ad mensuram spectat, observandum est vim motricem duplicem esse, aliam vivam, quae conjungitur actuali motu, uti gravitas in corporibus cadentibus, aliam mortuam, quae [illegible] motum, ut gravitas in corporibus, quae a descensu impediuntur. Porro vires vivae a quadrato velocitatis in massam an a simplici velocitate in massam aestimandae sint, philosophi adhuc quaerunt opinionem priorem Leibnitianis, alteram reliquis philosophis approbantibus. Sed quaestione quamcumque penitus omissa, communemque sententiam sequentes, vim motricem aestimamus a simplici velocitate in massam, nam in primis disputationibus omnes a [illegible] nis instituto [illegible] esse [illegible] Boscovichio reddit [illegible] certatum de viribus vivis

Cum valeat ad effectum omnem recte inservientia utraque aestimandi ratio res convenient omnes

52 Ut spatium ita et tempus, velocitas, et massa rectis lineis, earumque incrementa, et decrementa incrementis et decrementis linearum rectarum designantur, nam omnia aequalia sunt magnitudines quae augeri possunt et in immensum, uno vel spatium, tempus, velocitas et massa habeant imaginariae unitates, [illegible] digitum, [illegible] relatae ad tempus, sive spatium, tempus, velocitas et massa si ad proprias unitates [illegible] poterunt ex minimi numeris adeoque [illegible] multiplicari invicem dividi et non [illegible]

53 Linea recta per quam corpus movetur proprie dicitur directio motus ipsius, quae non aliud est quam linea ducta a corpore versus punctum illud, ad quod corpus movetur: summa vero velocitatum aequalium quibus singulae partes corporis una cum ipso corpore feruntur, dicitur quantitas motus, sive momentum corporis, nam quantitas motus corporis in singulas ejus partes aequaliter divisa concipitur et in iis omnibus aequalem producit velocitatem, hinc quantitas motus erit aequalis producto velocitatis particulae cujuscumque sive corporis in numerum particularum, sive producto velocitatis in massam corporis

54 [illegible] ex his [illegible] quantitates motus [illegible] velocitate [illegible] corporum [illegible] quantitate motus [illegible] producti velocitatis in massam

Secundo si utrumque aequationis membrum dividatur per massam [illegible] divisus [illegible] aequalis [illegible] velocitates erunt ut quantitates motus divisae per massas

2 Si utrumque aequationis membrum dividatur per velocitatem [illegible] aequalis [illegible] massae erunt aequales quantitatibus motus divisis per velocitates

[illegible] quantitatis motus [illegible] velocitatis [illegible]

55 [illegible] praemissis [illegible] de legibus [illegible] [illegible] Antitypia [illegible] gravitas, sive attractio universalis, attractio [illegible] vires [illegible] [illegible] de singulis [illegible] [illegible] [illegible] leges [illegible] [illegible] Divisio sit [illegible] Sectio Prima [illegible] Antitypia

56 Antitypia [illegible] materia [illegible] [illegible] in loco eodem [illegible] [illegible] [illegible] [illegible] [illegible] Philosophi [illegible] omnibus [illegible] natura

57 [illegible] corpora [illegible] impenetrabilitatis [illegible] [illegible] experimentis [illegible] impenetrabilitatem [illegible] [illegible] [illegible] particula [illegible] [illegible] [illegible]

[illegible] impenetrabilem [illegible]

[illegible] penetrabile [illegible]

[illegible] observationes [illegible] [illegible] corpora omnia [illegible] [illegible] [illegible]

[illegible]

[illegible] aqua [illegible] [illegible]

[illegible] [illegible] [illegible]

§ [illegible]

[illegible] radii [illegible] apparent [illegible] in [illegible] [illegible]
[illegible] sphaera simul [illegible] [illegible] quare per [illegible] foramen [illegible]
[illegible] [illegible] ab [illegible] coelestis, ac [illegible] partibus [illegible]
[illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] fiet
[illegible] [illegible] fluidorum particulae [illegible] sint [illegible]
[illegible] [illegible] [illegible] [illegible] ratio [illegible] fluidorum
[illegible] [illegible] figuris quibuscumque [illegible] corporum [illegible] poros [illegible]
[illegible] majores [illegible] in minimis [illegible] [illegible] obtinere
[illegible] quod ad fluidorum [illegible] ostendendum satis aptum est
Quietas [illegible] fluidorum [illegible] poros [illegible] [illegible] [illegible] misceantur [illegible] solidae
[illegible] particulae, poros [illegible] [illegible] [illegible] fluidorum [illegible]
[illegible] [illegible] [illegible] poros habeant [illegible] fluido simul [illegible]
[illegible] [illegible] [illegible] [illegible] aqua [illegible] [illegible]
[illegible] [illegible] poros [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] non observatur [illegible] fluidorum [illegible]
[illegible] fluida omnia ita [illegible] sint ut [illegible] [illegible] poros [illegible]
[illegible] poros [illegible] [illegible] [illegible] [illegible]
[illegible] admittatur
[illegible] [illegible] [illegible] [illegible] radios [illegible]
sint [illegible] [illegible] [illegible] [illegible] particulas [illegible] [illegible]
[illegible] [illegible] ad oculos [illegible] [illegible] [illegible] radios [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] latitudinem
[illegible] habeant [illegible] [illegible] [illegible] [illegible] corpus [illegible]
[illegible] [illegible] superficies [illegible] apparent [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] superficiebus corporum [illegible] poris [illegible] [illegible]
[illegible] corporum [illegible] [illegible] apparent [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] observemus [illegible] medio [illegible] [illegible]
[illegible] radios transitum impediunt
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] foramen [illegible]
[illegible] [illegible] foramen [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] foramen [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] distincta apparent [illegible]
[illegible] continuitate [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpore [illegible]
[illegible]

59 Et quod spectat [illegible] naturae [illegible] [illegible] [illegible]
[illegible]

60 [illegible]
[illegible]
[illegible]
[illegible] pro abiguo [illegible] [illegible] [illegible]

De [illegible] et Natura inertiae

61 [illegible]
[illegible] statu [illegible]
[illegible]
[illegible] Corollarium [illegible]

[illegible] statum suum [illegible] motus [illegible]
[illegible] statum [illegible]

62 [illegible]
[illegible]
[illegible]

63 [illegible]
[illegible] hujusmodi causa [illegible]

[illegible]
[illegible] hujusmodi causa [illegible]

incognodi causa non apparuit, nec facile dignosci possit. [illegible] sunt quot causae in primis [illegible] [illegible] quae corpora a [illegible] ad motum [illegible] reducere [illegible] quia [illegible] [illegible] [illegible] in [illegible] [illegible] ipsis corporis [illegible] [illegible] [illegible] et solvens [illegible] calorem producendo, partes corporis [illegible] agitare [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis, [illegible] mutationes gravitatis [illegible] [illegible] corpora [illegible] [illegible] centrum [illegible] [illegible] attractio [illegible] [illegible] [illegible] corpora ad [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] magnitudine massae [illegible] [illegible] et [illegible] [illegible], et [illegible] mutationes [illegible] [illegible] causa [illegible] [illegible] [illegible] [illegible] quot causae sunt [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] quietis? [illegible] [illegible] [illegible] [illegible] particularis [illegible] [illegible] motui corporis forte [illegible] resistentia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] semper in vacuo [illegible] [illegible] remanent resistentia [illegible] [illegible] superficies [illegible] [illegible] movetur corpus aut quae corpus movent [illegible] [illegible] [illegible] [illegible] causis [illegible] [illegible] [illegible] aut [illegible] motum, [illegible] apparentem [illegible] causam [illegible] invenimus. [illegible] [illegible] [illegible] [illegible] ista causa cogens [illegible] [illegible] sive motus sive quietis mutare

Principium Secundum

Corpora [illegible] ita [illegible] servant statum proprium quietis, vel motus [illegible] [illegible] [illegible] [illegible] [illegible] et simul [illegible] [illegible] [illegible] in causas a quibus coguntur [illegible] [illegible]

4 [illegible] [illegible] causas quae [illegible] mutare statum corporis omnis [illegible] [illegible] mutationem [illegible] [illegible] [illegible] causa, quantum corpori tribuit ad [illegible] statum mutandum, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpus A [illegible] non posse corpus B, [illegible] [illegible] [illegible] ad motum [illegible] A [illegible] [illegible] motus [illegible] et corpus B [illegible] [illegible] [illegible], [illegible] corpus A [illegible] non posse corpus B [illegible] motum [illegible] [illegible] [illegible] [illegible] [illegible] majoris [illegible] motus, [illegible] A [illegible] [illegible], [illegible] [illegible] motus corporis B denique [illegible] corpus A non posse corpus B ~~[illegible]~~ motum [illegible] aut a majori [illegible] [illegible] aut absolute a motu [illegible] quietem [illegible] motus, [illegible] [illegible] B [illegible] [illegible] A [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] B, si [illegible] contrariis [illegible] [illegible] [illegible] [illegible] experimentis [illegible] [illegible] indubium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporum [illegible] [illegible] mutare statum [illegible] [illegible] corporis statum [illegible] mutare. [illegible] hinc propositio

5 Prob. [illegible] [illegible] [illegible] corporis A status mutatur, [illegible] [illegible] A [illegible] mutare [illegible] [illegible] corpus B [illegible] [illegible] [illegible] corpora non mutant statum proprium [illegible] [illegible] [illegible] [illegible] ergo causa aliqua [illegible] quae cogat corpus a mutare statum [illegible] [illegible] [illegible] [illegible] corpore [illegible] B [illegible] [illegible] [illegible] [illegible] [illegible] A [illegible] [illegible] B [illegible] [illegible] non [illegible] [illegible] statum [illegible] [illegible] requirit in [illegible] corpore, [illegible] [illegible] [illegible] ~~[illegible]~~ requirit [illegible] [illegible] [illegible] determinatas mutationes [illegible] [illegible] [illegible] in B. [illegible] hoc [illegible] [illegible] [illegible] mutationem statum [illegible] in corpore A [illegible] [illegible] A [illegible] mutare statum corporis B [illegible] corpus B [illegible] [illegible] [illegible] [illegible] mutationis statum [illegible] [illegible] [illegible] corpus A [illegible] [illegible] ergo corpus B [illegible] [illegible] [illegible] [illegible] vel motus [illegible] [illegible] [illegible] cogitur statum suum mutare [illegible] [illegible]. Idem dic de corpore alio quocumque B, cujus status mutatur, ac de quacumque causa [illegible] [illegible] mutationem status [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

65 Ideo [illegible] [illegible] cum [illegible] in causas a quibus coguntur statum suum mutare, quae [illegible] [illegible] resistentia [illegible] [illegible] corpora resistere causis a quibus coguntur statum mutare sive potius [illegible] corpora resistere mutationi proprii status, et corpus [illegible] [illegible] rationis [illegible] [illegible] a impingit in B [illegible] resistens mutationi [illegible] status [illegible] mutare [illegible] [illegible] corpus A [illegible] ostendit [illegible] si [illegible] [illegible] [illegible] [illegible] debent [illegible] sui motus [illegible] [illegible] [illegible] [illegible] [illegible] corpus A impingat in corpus B non resistens mutationi proprii status quae status [illegible] mutare corporis A statum [illegible] [illegible] debent [illegible] experimenta [illegible] [illegible] status corporis A ad corpus [illegible] in B, et hujus statum mutat, ut ad num 64 [illegible] [illegible] [illegible] corporis A sive corpus B resistens mutationi sui status [illegible], ad quam [illegible] mutationis status [illegible] [illegible] in [illegible] status mutatio [illegible]

[illegible] nos ab [illegible] resistentia voce abstinemus sed hanc actionem qua [illegible] corpora in [illegible] quibus coguntur mutare statum [illegible] dicatur resistentia, [illegible] [illegible] [illegible] [illegible] [illegible] in toto ad [illegible] [illegible] [illegible] [illegible] quae [illegible] ista resistentia [illegible] [illegible] [illegible] resistentia si actio [illegible] [illegible] [illegible] consideremus [illegible] [illegible] [illegible] vis [illegible] in causis [illegible] [illegible] ut vis in causis [illegible] [illegible] [illegible] status [illegible] nam hoc [illegible] resistit actio [illegible] [illegible] corpora [illegible] in causas a quibus coguntur mutare statum [illegible] [illegible] status [illegible] [illegible] status non [illegible] [illegible] vis a causis [illegible] [illegible] status [illegible] [illegible] [illegible] resistentia nomen [illegible] [illegible] hoc [illegible] [illegible] resistentia nomine [illegible] [illegible] [illegible] [illegible] in [illegible] mutationem [illegible] in causas a quibus coguntur mutare statum et [illegible] nomine [illegible] [illegible] aliis [illegible] [illegible] Propositio Tertia

[illegible] [illegible] [illegible] corpora [illegible] [illegible] status mutationem, ut [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] effectus resistentiae [illegible] [illegible] status sua mutatio status quae contrariae in causis [illegible] mutare statum corporum [illegible] [illegible] [illegible] corporum [illegible] [illegible] vi quae agit in eadem [illegible] duo corpora A et B et A [illegible] [illegible] B [illegible] [illegible] status corporis A [illegible] resistentia corporis B [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis A agit in B [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] resistentia corporis B [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] mutationem sui status [illegible] resistentia [illegible]

[illegible] corpora resistunt [illegible] mutationi sui status [illegible] num 66 [illegible] [illegible] majori mutationi [illegible] [illegible] resistentia [illegible] [illegible] [illegible] contra mutatio [illegible] resistentia [illegible] mutatio status [illegible] [illegible] [illegible] [illegible] corpora [illegible] resistunt [illegible] vis [illegible] [illegible] [illegible] [illegible] particulae resistunt mutationi status (nam [illegible] [illegible] [illegible] particulis [illegible]) corpora [illegible] [illegible] [illegible] [illegible] particularum quibus constat [illegible] resistentiae [illegible]

[illegible] duo corpora A et [illegible] [illegible] [illegible] [illegible] eadem status [illegible] [illegible] resistentia [illegible] mutationi [illegible] [illegible] [illegible] B [illegible]

in S et ei equalis m S. Eadem per inventa constat, quod habes num. 54 [illegible] ut [illegible] rata S equalis in diviso [illegible] et ei equalis [illegible] diviso [illegible] equalis [illegible] diviso [illegible]

[illegible] E, per num. 54 esse m equalem S diviso per [illegible] datis [illegible] m equalis [illegible] diviso [illegible] majores [illegible] esse S divisis per [illegible] equalis [illegible] diviso [illegible] S sive S ad [illegible] ut [illegible] ad S, unde [illegible] alia [illegible] quibus comparari [illegible] possunt quantitates motus, velocitates, resistentiae, et vires impressae.

Resistentia quam corpora [illegible] mutationi proprii status non videtur posse [illegible]

6. Propositionis, [illegible] solutione [illegible] adversari resistentiae [illegible] aliquo [illegible] causis aut proprietatibus corporum derivare [illegible] solutionem

50 [illegible] Resistentia quam corpora [illegible] mutationi status [illegible] esse provenire vel a corporis [illegible] impenetrabilitate [illegible] gravitate velocitatibus aliis. [illegible] agere ad mutandum statum corporum [illegible] quippe per impenetrabilitatem corpora [illegible] a locis [illegible] corporis mutare debebit status [illegible] in [illegible] quia [illegible] impenetrabilitatem illud [illegible] e loco in quo [illegible] corpora [illegible] gravitate [illegible] versus [illegible] versus corpora [illegible] gravitatem aut [illegible] status [illegible] debent [illegible] resistentia [illegible]

[illegible] philosophos esse qui [illegible] tribuunt aliquid [illegible] quam [illegible] quam [illegible] qualibet [illegible] et quidem [illegible] quaestionis [illegible] est corpora [illegible] resistentiae [illegible] a Newtonianis [illegible] contendere [illegible] idea [illegible] juxta Newtonianos resistentia quam corpora [illegible] mutationi proprii status [illegible] quam vis [illegible] causis [illegible] mutare statum et [illegible] corpora ad [illegible] statum mutandi [illegible] contra resistentia, quae provenit a gravitate, aliis viribus corporum [illegible] impenetrabilitate [illegible] nullo esse posse resistentiam videmus [illegible] in causis [illegible] extinguit ut [illegible] in corpore [illegible] projecto, [illegible] resistentia [illegible] et [illegible] corporibus [illegible] occurrentibus [illegible] motum corporis contrarium [illegible] gravitate [illegible] attractione aliisque viribus [illegible] producunt resistentiam [illegible] in causis [illegible] extinguit, [illegible] potest resistentia [illegible] status [illegible] in causis [illegible] nullo [illegible] extinguit [illegible] causa agente in corpora ad [illegible] statum mutandum.

[illegible] contra [illegible] quantitatis [illegible] effectus [illegible] quod corpora [illegible] mutationi [illegible] status [illegible] impressae [illegible] viribus [illegible] a [illegible] impenetrabilitate gravitate attractione aut viribus aliis [illegible] corpori [illegible] viribus sive [illegible] majori aut minori [illegible] corpori [illegible] status mutandum [illegible] contra [illegible] impenetrabilitati [illegible] majus aut minus [illegible] esse [illegible]

si corpus nec magnitudinem, nec loci [illegible] ab accidentibus [illegible] aut a corporibus [illegible] accidentibus a quibus [illegible] [illegible] semel [illegible] [illegible] corpus ad sibi ipsis [illegible] mutationis [illegible] [illegible] proportio [illegible] [illegible] corpora mutationi [illegible] [illegible] [illegible] [illegible] gravius [illegible] [illegible] [illegible] [illegible] [illegible] illa [illegible] [illegible] [illegible] quare qui [illegible] contra accidentia Metaphysica [illegible] [illegible] [illegible] philosophica [illegible] [illegible] [illegible] per partes [illegible]

Et quod spectat ad impenetrabilitatem [illegible] [illegible] aliqua [illegible] [illegible] [illegible] secundo [illegible] [illegible] quod [illegible] [illegible] [illegible] et [illegible] loco [illegible] [illegible] [illegible] resistentia [illegible] corpora [illegible] mutationem [illegible] [illegible] corpori [illegible] [illegible] [illegible] impenetrabilitas [illegible] [illegible] impenetrabilitatis [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] statum [illegible] [illegible] mutationes [illegible] [illegible] impenetrabilitatem [illegible] existere [illegible] impenetrabilitatis [illegible] [illegible] resistentia [illegible] corpora [illegible] [illegible] impenetrabilitate [illegible] [illegible] aliquod corpora [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] mutationi [illegible] impenetrabilitate [illegible] [illegible] [illegible] resistentia quod corpora [illegible] mutationem [illegible] [illegible] [illegible] resistentiam [illegible] impenetrabilitati [illegible] [illegible] [illegible] resistentia

Et quod spectat ad gravitatem [illegible] corpora resistentiam [illegible] [illegible] corpora contra gravitatis [illegible] [illegible] in partes [illegible] [illegible] [illegible] [illegible] [illegible] gravitatis [illegible] status corporis [illegible] existente corpore [illegible] [illegible] [illegible] perpendiculariter [illegible] [illegible] perpendiculariter [illegible] [illegible] [illegible] [illegible] [illegible] aliqua [illegible] [illegible] [illegible] [illegible] corpora mutationi [illegible] gravitatem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impedientes [illegible] [illegible] mutatio [illegible] [illegible] [illegible] [illegible] [illegible] impedimenta [illegible] [illegible] [illegible] impetus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] a [illegible] gravitas [illegible] [illegible] [illegible] resistentia

§ 100. [illegible] abstractione, [illegible] corpora [illegible] aequaliter a corporibus aliis urgeantur [illegible] omnes [illegible] primum [illegible] abstractionis particularis: quare resistentia [illegible] operantur, [illegible] causis agentibus in corpore [illegible] : causis agentibus in corpora non [illegible] particularis abstractio [illegible] resistentia [illegible] omnes; [illegible] opponunt mutationi sui status modo [illegible] corpora [illegible] resistentia [illegible] abstractione particulari [illegible] [illegible] [illegible] per sensibilia in causis [illegible] mutationi status [illegible] [illegible] resistentia [illegible] gravitate [illegible] quod [illegible] [illegible] resistentia corpora [illegible] mutationi sui status stabilit [illegible] propositionis [illegible] [illegible] per omnes [illegible] corpora [illegible] resistere [illegible] corpora [illegible] sui status mutationi [illegible] in causis agentibus non [illegible] a causis agentibus in corpora [illegible]

§ 101. Resistentia [illegible] corpora [illegible] mutationi sui status, potest triplici modo, [illegible] per motum corpore aut [illegible] [illegible] prout [illegible] 63 [illegible]

§ 102. [illegible] experimentum [illegible] apparent [illegible] philosophorum [illegible] [illegible] [illegible] provenit resistentia [illegible] mutationi sui status: [illegible] resistentia [illegible] aut scabrities [illegible] corpora [illegible] sed resistentia [illegible] scabrities [illegible] [illegible] scabrities, [illegible] corpora [illegible] obiiciunt mutationi sui status; [illegible] resistentia [illegible] corpora [illegible] sui status mutationi [illegible] resistentia [illegible] quod [illegible]

[illegible] vero [illegible] attendendi [illegible] scabritiei [illegible] corpora [illegible] mediis [illegible] scabrities [illegible] corporibus [illegible] attendendum [illegible] scabritiei resistentia [illegible] mediis, ac scabritiei [illegible] resistentia [illegible] in causis [illegible] particulari abstractione, [illegible] in causis [illegible] scabrities [illegible] resistentia [illegible] in causis [illegible] in mediis aut scabritiebus [illegible] abstractione [illegible] resistentia media et scabrities [illegible] mutationi sui status [illegible] resistentia [illegible] corpora [illegible] mutationi sui status [illegible] resistentia [illegible] scabrities [illegible] mutationi sui status [illegible]

2. [illegible] philosophorum [illegible] [illegible] corpus [illegible] [illegible] mutationem [illegible] corpora [illegible] corpori [illegible]

resistentiae [illegible] [illegible] medii et scabritiei resistentiae [illegible]
[illegible] corpora [illegible] intelligere [illegible] media et scabrities resistendo [illegible] motus, [illegible]
statum immutatum [illegible] ut mediorum [illegible] statum [illegible]
[illegible] rationis [illegible] possunt affirmare media ipsa et scabrities resistentiam
[illegible] possit, et corporis statum immutatum [illegible] motus corporis [illegible]
[illegible] nec certe [illegible] aliis [illegible] ipsa aut [illegible]
[illegible] [illegible] quae resistunt corpori [illegible] determinare [illegible]
[illegible] corporis status mutatio a qua corporis [illegible] status, [illegible] immutabilitas [illegible]
[illegible] modo philosophandi resistentiam, qua corpora obiiciunt mutationi [illegible] status [illegible]
[illegible] mediorum aut [illegible] quam corpora immutabiliora [illegible]

Quod spectat resistentiam mediorum [illegible] provenire [illegible] corporis [illegible]
[illegible] majus aut minus [illegible] majori [illegible] minori [illegible]
[illegible] proportione resistentiae mediorum [illegible]
in vacuo, ac in aperto aere [illegible] in vacuo aere sublato tamen [illegible] corporis resist[illegible]
[illegible] resistunt [illegible] motus, media vero [illegible]
[illegible] mediorum resistentiam [illegible] corpora mutationi [illegible]

Quod autem spectat scabrities [illegible] scabrities [illegible] experimenta [illegible]
[illegible] quod totius gravitatis corporum, quae debent scabrities [illegible]
[illegible] proportionem [illegible] scabritiebus [illegible]
[illegible] resistentiam corporum [illegible] gravitate [illegible]
[illegible] scabritiebus

[illegible] resistentiam [illegible] gravitati [illegible]
[illegible] potentiae [illegible]

[illegible] ex dictis [illegible] resistentiae [illegible]
[illegible] resistentiae [illegible] intelligitur [illegible]
[illegible] resistentiam quam obiiciunt corpora mutationi [illegible] status [illegible]
[illegible] transcendentia [illegible]
[illegible]
[illegible] [illegible] addere [illegible]
[illegible] in omnibus corporibus [illegible]
[illegible] mutationi [illegible] motus [illegible] corporis [illegible]
corpora omnia [illegible] perseverare in [illegible]
perseverare [illegible] mutationi status resistere [illegible]
[illegible] [illegible] reducat [illegible]
[illegible] mutationem status [illegible] corporis [illegible]
[illegible] omnia perseverabunt in statu [illegible] causa aliqua [illegible]
[illegible] inertiae appellamus [illegible]
[illegible] omnibus corporibus [illegible]
omnium proprietatibus [illegible]

[illegible] effectus sive resistentia quam in status mutationi corpora obiiciunt [illegible]
[illegible] mutatio status [illegible] motus corporis [illegible]
[illegible] aliis [illegible] causis [illegible] immutationem status
[illegible] mutationi [illegible]

p. [illegible] inertia inutilis est nec satis intelligimus posse corpora perseverare in statu suo quietis [illegible] motus [illegible] quam inertiam admittamus [illegible] quando utriusque status [illegible]

[illegible] distinguo satis intelligimus: si corpora [illegible] a statu suo quietis ad motum transeant si corpora ita perseverent quietis vel motus [illegible] mutatio [illegible] nec resistentia [illegible] quae corpora [illegible] statum suum [illegible] servare [illegible] resistentiam [illegible] producat quare [illegible] esse ad [illegible] ad causam [illegible] satis corpori [illegible] perseverare in statu suo quietis vel motus sine inertia [illegible] causa [illegible] status [illegible] sane id affirma[illegible] [illegible] necessarii [illegible] simul [illegible] motus [illegible] sibi [illegible] possit [illegible] ad vero id quod [illegible] nec [illegible] rationibus [illegible] demonstrationibus [illegible]

[illegible] reparant [illegible] resistentiam [illegible] quietis [illegible] sed [illegible] causa [illegible] ad motum [illegible] resistentia [illegible] [illegible] [illegible] [illegible] [illegible]

3 [illegible] inertia [illegible] est nec [illegible] resistentia [illegible] inertia [illegible]

1 Corpora sunt indifferentia ad motum et ad quietem quod constat apud omnes [illegible] [illegible] nulli [illegible]

2 Si corpora resisterent [illegible] mutationi nullam [illegible] mutatio status [illegible] [illegible] si corpus [illegible] resisteret corpori [illegible] quietis [illegible] resistentia [illegible] [illegible] [illegible] corpus [illegible] effectus [illegible] causa [illegible] status [illegible]

[illegible] nec inertia nec resistentia [illegible] est [illegible]

[illegible] distinguo corpora [illegible] indifferentia ad motum et ad quietem [illegible] possunt [illegible] sive motus sive quietis [illegible] corpora sunt [illegible] indifferentia ad motum et ad quietem [illegible] status [illegible] sive motus [illegible] sive quietis non [illegible] nec [illegible] mutatione [illegible] status [illegible] causa [illegible] corpore [illegible] status [illegible] status corporis mutandus nulla [illegible] indifferentia ad motum et ad quietem [illegible] [illegible] mutationi [illegible] [illegible]

[illegible] robusticando [illegible] posse [illegible] indifferentia [illegible] motu

[illegible] opponant corpori mutationem status in [illegible] statum corporis [illegible] corporis reactionem, [illegible] actio non sit mutationi [illegible] resistentia [illegible] inertia [illegible] quod dicunt [illegible] nostram opinionem

[illegible] resistentia [illegible] mutare statum nulla corpori habere [illegible] mutatio status [illegible] corpora resistant in statu mutationi [illegible] status [illegible] contrariam mutationem [illegible] adversarios [illegible] hoc loco non [illegible] corpora mutationem sui status [illegible] status impedire quia [illegible] contrarios [illegible] non video quod possunt [illegible] resistentia [illegible] mutationem sui status [illegible] resistentia [illegible] status [illegible] mutationi sui status resistentiae.

[illegible] resistentia [illegible] mutatio status [illegible] quia contraria [illegible] effectus impediant [illegible] inertia [illegible] similibus [illegible]

Sed [illegible] posteriore [illegible] responsionem [illegible] quod [illegible] vis inertiae [illegible] a gravitate [illegible] gravitas [illegible] corpus [illegible] inertia [illegible] gravitatis [illegible]

[illegible] apparet [illegible] resistentia [illegible] vires [illegible] non [illegible] effectum impedire [illegible] inertia [illegible] statum [illegible] effectum [illegible] corpus [illegible] status [illegible] quod vis inertiae et gravitatis [illegible] inertia [illegible] gravitas [illegible]

[illegible] omnino si in [illegible] [illegible]
[illegible] [illegible] corpori [illegible] hoc [illegible]
[illegible] [illegible] [illegible] inertia A ad [illegible]
[illegible] B [illegible] debeat [illegible] [illegible] B [illegible]
[illegible] A ad [illegible] B, porro obtineri [illegible] inertia non sic gravitati [illegible]
[illegible] gravitatem [illegible] inertia, et in corpore B [illegible]
[illegible] [illegible] portiones
[illegible] ad quatuor, et [illegible] tria et ad sex [illegible] ad duo [illegible]
[illegible] corpori [illegible] [illegible] in hoc [illegible]
[illegible] vero contendunt [illegible] [illegible] [illegible]
[illegible] insolubilia [illegible].

[illegible] [illegible] explicationes [illegible] semel [illegible]
lapidi [illegible] [illegible] perseverare ita [illegible]
[illegible] motus [illegible] continuo [illegible] motu [illegible]
[illegible]

[illegible] resistentia [illegible] [illegible]
[illegible] [illegible] continuo [illegible] [illegible]
[illegible] continuo [illegible]
[illegible] resistentia [illegible]
[illegible] continuo [illegible] in ipso [illegible]
ob resistentiam [illegible] lapide [illegible]
[illegible] semel impressus lapidi [illegible] sine [illegible] nova actione [illegible]

[illegible] resistentia [illegible] resistentia [illegible]
[illegible] ratio [illegible] resistentia [illegible]
[illegible] resistentia [illegible] mutationi [illegible]
[illegible] motum [illegible]

[illegible] A impingit in B [illegible] in hoc producat [illegible]
resistentia [illegible] in corpore A [illegible] aliqua motus
in corpore A debet consumi, ut motus in B producat
[illegible] corpus quod [illegible] actione [illegible]
capax est motus, [illegible]
[illegible] corporis A in B [illegible] quaeret [illegible]
[illegible] [illegible] bene.

3 [illegible] corporis B [illegible] mutatione [illegible]
[illegible] adversarii [illegible] [illegible]
[illegible] sufficientem rationem mutationis status [illegible]
[illegible] determinare [illegible]
[illegible] corpora [illegible] mutationis [illegible]
status [illegible] [illegible]
adversarii [illegible] sufficientis rationis mutationis status in corpus [illegible] involvere
actionis [illegible] resistentia [illegible] motus [illegible]
[illegible] B [illegible] motus [illegible]
[illegible] simul. corpus B [illegible] A [illegible]

[illegible] posteriore [illegible] adversarii [illegible] ostenditur

[illegible] est quod [illegible] adversarii quidquid [illegible] quid [illegible] observationes [illegible] non admittimus [illegible]

[illegible] positivam [illegible] contraria in iis inducat status mutationem [illegible] activa et positiva est [illegible] contrarios non [illegible] contrarios [illegible]

[illegible] Observationes [illegible] in nostro casu [illegible] inertia [illegible] positiva [illegible]

[illegible] adversarii [illegible] absolute [illegible] corpora [illegible] absolute [illegible] quiescant [illegible] quippe [illegible] contrarios status [illegible] inertia [illegible] statum quod [illegible] contrarie [illegible] status [illegible] quiete [illegible]

Quod additur est [illegible] in [illegible] motu [illegible] adversarii [illegible] argumentorum [illegible] observationem [illegible] sed hæc mittamus

[illegible] inertia [illegible] continuo [illegible] statum [illegible] acquisitum [illegible] status [illegible]

Cursio:

[illegible] intelligendum esse vires [illegible] [illegible] habentur [illegible] [illegible] [illegible] in corpora [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] mutationis [illegible] [illegible] ad statum [illegible] [illegible] [illegible] [illegible] vim proiectionis [illegible] determinatur [illegible] motus [illegible] [illegible] vim gravitatis [illegible] [illegible] determinatur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ex hisce [illegible]

Scholion

[illegible] omnibus [illegible] inertia [illegible] et ob eam [illegible] resistentia, quam [illegible] [illegible] [illegible] proportionalis est massae corporum et [illegible] [illegible] [illegible] mutationis status [illegible] in corporibus [illegible] [illegible] [illegible] [illegible] mutare statum corporum majorem [illegible] status mutationem quam in corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] statum [illegible] [illegible] Primo [illegible] resistentia corporum [illegible] [illegible] [illegible] inertia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] gravitas [illegible] Secundo [illegible] [illegible] [illegible] fluidi et [illegible] [illegible] resistentia [illegible] [illegible] [illegible] resistentia [illegible] a causis [illegible] vires quae in [illegible] fluidis [illegible] [illegible] [illegible] resistentia, quae [illegible] ob inertiam [illegible] [illegible] [illegible] statu [illegible] motu [illegible] [illegible] [illegible] [illegible] experimentis [illegible] [illegible] [illegible] [illegible] majorem [illegible] [illegible] status mutationem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fluidi [illegible] corpore majore [illegible] [illegible] [illegible] [illegible] [illegible] majorem [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Boscovichius in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] absoluta [illegible] [illegible] relativa [illegible] [illegible] [illegible] in statu [illegible] Boscovichius [illegible] corpora omnia [illegible] [illegible] absoluta [illegible] statum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] statum suum [illegible] vel motum [illegible] [illegible] [illegible] [illegible] [illegible] ipsis continuo mutant

[illegible] [illegible] [illegible] [illegible] sententiam nostram [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] statum [illegible] videntur corpora [illegible] [illegible] absoluta [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ratio [illegible] [illegible] [illegible] statum [illegible] [illegible]

[illegible] [illegible] [illegible] Boscovich [illegible] ex quo [illegible] apparet [illegible] [illegible] [illegible] [illegible] [illegible] mutare statum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] hujusmodi [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ob hanc [illegible] determinationem [illegible]

[illegible] corpora ex sua natura statum requisitum servare [illegible] non [illegible]
[illegible] simpliciter [illegible] contra [illegible] est [illegible] status [illegible] sed [illegible]
[illegible] cognoscimus ac demonstramus, primo [illegible] ex eo quod natu-
ra corporum per se nec motum magis requirat nec [illegible] sed utrumque [illegible]
[illegible] ostendimus deinde ex eo quod [illegible]
[illegible] spiritus [illegible] inter utrumque [illegible]
[illegible] habeant ex sua natura [illegible] status [illegible] contra [illegible]
[illegible] corpora [illegible] differentia [illegible] elementa [illegible]
[illegible] non [illegible] aliqua differentia inter principia corporum [illegible]
[illegible] assignabit [illegible]

Ad 2 nos [illegible] differentia [illegible] et [illegible] corpora statum suum [illegible]
[illegible] principium [illegible] Boschovichius [illegible] indifferentia
[illegible] demonstratione [illegible] primo ex ipsa natura [illegible]
[illegible] nec motum potius quam quietem requirere [illegible] utrumque [illegible]
[illegible] corpora [illegible] quietem [illegible]
[illegible] indifferentia [illegible] sive [illegible] ad motum [illegible]
[illegible] quietis; nonne [illegible] illi statui ad quem [illegible] magis [illegible]
[illegible] ex sua natura sint [illegible] indifferentia [illegible] status [illegible]
[illegible] ex sua natura [illegible] corpora contra naturam [illegible]
[illegible]

Ad 3 [illegible] si Boschovichius non corporum naturae [illegible] sed [illegible] aliquid [illegible]
[illegible] status [illegible] posse [illegible] quoniam [illegible]
[illegible] determinationem [illegible]
[illegible] continuo [illegible] status [illegible]
[illegible] ad alia corpora: [illegible] minime obstare [illegible]
[illegible] determinationem [illegible] Boschovichius [illegible]
[illegible] facile [illegible] admitti [illegible] ad hujus universi [illegible]
[illegible] status [illegible]
[illegible] corpus [illegible] continuo mutare status [illegible]
[illegible] hypotheses non [illegible]

[illegible] caput [illegible] corporum sequentis

Ad 4 Ex [illegible] corporum non [illegible] sequentur [illegible]
[illegible] leges naturae et leges motus [illegible] fundamenta constituant [illegible]
[illegible] in hujusmodi legibus exponendis [illegible] Newtono [illegible]
[illegible] ipsis [illegible] corpo-
[illegible]
[illegible] omne [illegible] statu suo [illegible]
[illegible] status sui [illegible]

Ad 5 [illegible] corpus omne [illegible] servare statum suum [illegible]
[illegible] corpus omne [illegible] statu suo sive quietis sive motus [illegible]
[illegible]
[illegible] si navis [illegible]
[illegible] navis [illegible]

quo corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] corpus [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non possunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] in recta linea. non potest corpus [illegible] [illegible] recta linea [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible]
[illegible]: [illegible] perseverat in statu suo [illegible]

2a [illegible] [illegible] in statu [illegible] [illegible] [illegible] per aliquod corpus [illegible] [illegible] perseverare in statu [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non tamen [illegible] [illegible] in eo [illegible] [illegible] perseverare.

2 Motus [illegible] non uniformis [illegible] [illegible] [illegible] status corporis [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] status [illegible] [illegible] [illegible] [illegible] motus uniformis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus uniformis [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] statu [illegible] perseverat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in statu [illegible] in eo per aliquod corpus perseverans [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] perseverans in statu motus [illegible] [illegible] per aliquod corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in statu [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] status [illegible] status [illegible] status motus uniformis [illegible] [illegible] status motus non uniformis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] non uniformes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus uniformes [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] a statu [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a statu [illegible] [illegible] [illegible] [illegible]

[illegible] motus uniformis ac rectilinei [illegible]
[illegible] debet [illegible] motu uniformi ac rectilineo moveri [illegible] corpus aliquod [illegible]
[illegible]
[illegible]
[illegible]
[illegible] plane et [illegible] corpori [illegible]
[illegible] motus [illegible]
[illegible] motus [illegible]
[illegible] a resistentia [illegible] gravitatis [illegible] motu [illegible]
[illegible]

[illegible] motus [illegible]
[illegible] accelerato [illegible] retardato motu [illegible]
[illegible]
[illegible] rectilinea [illegible]

[illegible]
[illegible]
[illegible] gravitatis [illegible] retardato [illegible]
[illegible]
[illegible] motus [illegible]
[illegible]
[illegible] motui contrario [illegible]

[illegible]
[illegible] observationibus [illegible]

[illegible] corpora [illegible]
[illegible] in corpore [illegible]

2 [illegible] observationes [illegible]
[illegible] motus [illegible]
[illegible]

[illegible] corpora [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in corporibus [illegible]
[illegible] motus [illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]

[illegible] experimenta et observationes [illegible] ratiocinatione [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] Josepho [illegible] argumentationem [illegible] 93
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] possibilitati [illegible]
[illegible] [illegible] [illegible] [illegible]

92 [illegible] [illegible] [illegible] [illegible] [illegible] determinat [illegible]
[illegible] [illegible] [illegible] continuo [illegible]
[illegible] [illegible] [illegible] [illegible] hoc motu [illegible]

Corolarium [illegible]

90. In hoc [illegible] motu [illegible] [illegible] spatia [illegible] 97
[illegible] [illegible] [illegible] [illegible] duplo triplo [illegible] [illegible]
[illegible] [illegible] [illegible]

Corolarium Tertium

91. [illegible] corpori [illegible] maiora [illegible] [illegible] [illegible]
[illegible] spatii [illegible] [illegible] [illegible] spatii [illegible]
velocitate [illegible] habeat velocitatem [illegible] [illegible]
[illegible] velocitates [illegible] [illegible]

Corolarium Quartum

92. Sive si corpori diversa [illegible] [illegible] [illegible] temporibus [illegible]
[illegible] spatia [illegible] in ratione composita [illegible] [illegible]
spatii [illegible] [illegible] [illegible] tempus et velocitas quibus mobile
[illegible] [illegible] spatium [illegible] tempus, et velocitas [illegible]
[illegible] [illegible] denominationibus [illegible] erit S ad S in ratione composita
[illegible] [illegible] [illegible] spatium [illegible] [illegible]
[illegible] [illegible] tempus velocitas [illegible] [illegible]

Corolarium Quintum

93. [illegible] aequationem et proportionem [illegible] [illegible] [illegible]
[illegible]

1. [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] erunt tempora in ratione composita [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
2. [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] erunt velocitates in ratione composita [illegible]
[illegible] [illegible] [illegible] [illegible]
3. Sive [illegible] erit [illegible] [illegible] [illegible] corpus diversis
[illegible] temporibus [illegible] [illegible] erunt tempora in ratione [illegible]
[illegible] et vicissim

Corolarium Sextum

94. [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] theoremata [illegible] ad quantitates motus [illegible]
[illegible] [illegible] [illegible] [illegible] sequentes formulae [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] spatium S ad tempus T
2. [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] velocitas

Sequalis sit divisa par[illegible] spatii [illegible] quantitatis motus [illegible] tempus divisa per motum [illegible] erit proportionale velocitate [illegible] eadem [illegible]
Idem est de aliis dicto ac similibus [illegible] quantis [illegible] corpora

Corollarium Secundum

95 [illegible] motus [illegible] ab eadem causa [illegible] uniformis sit ac rectilineus [illegible] motum uniformem [illegible] causa [illegible] determinat corpus ad motum uniformem ac rectilineum [illegible] corpus a motu [illegible] motum [illegible] per[illegible] perpetuo [illegible]

Scholion

96 Quae tradimus in [illegible] secundo [illegible] proxime [illegible] corporum [illegible] motus aequabilis ille est in quo corpus eandem semper servat velocitatem [illegible] [illegible]

Lex Secunda

Mutatio status sive quietis, sive motus corporis est proportionalis vi motrici quae imprimitur.

97 Corol. [illegible] corpus [illegible] natura sit [illegible] adaequata causa mutationis status [illegible] corporis [illegible] motrice impressa [illegible] effectus sunt proportionales suis causis [illegible] mutatio status [illegible]

Corollarium Primum

98 [illegible] vis [illegible] vis [illegible] velocitate [illegible] dupla vis [illegible] simul omnes [illegible] motus [illegible] impressus motui [illegible] conspirat [illegible] contrarius [illegible] eo [illegible] *Corollarium Secundum*

99 [illegible] corpus [illegible] a quiete ad motum [illegible] continuo [illegible] corporis motus [illegible] primo tempore acquisita [illegible] vis semper perseverat [illegible] lege primam [illegible] successivis temporibus [illegible] corpori a vi [illegible] continuo [illegible] velocitati [illegible] [illegible] velocitate [illegible] accelera[illegible]

100 [illegible] corpus [illegible] a quiete ad motum [illegible] continuo [illegible] aequaliter [illegible] corporis motus [illegible] quia vis agit continuo velocitas corporis successivis temporibus [illegible] et motus corporis accelerabitur [illegible] quia [illegible] agit continuo aequaliter sive [illegible] successivis temporibus aequalibus [illegible] corporis successivis temporibus aequalibus [illegible] aequalia [illegible] corporis motus [illegible] motus uniformiter accelera[illegible] [illegible] aequalibus [illegible]

Corollarium Secundum

101 [illegible] in motu corporis a quiete [illegible] temporibus [illegible] acquiruntur [illegible] in motu [illegible] continuo et aequaliter [illegible] singulis temporibus [illegible] aequales [illegible] primo tempore [illegible] secundo tempore [illegible] velocitatis [illegible] in fine secundi temporis [illegible] in fine [illegible] tempora aequalia [illegible] acquisitae [illegible] in motu ac quiete [illegible] proportionales temporibus [illegible]

102 [illegible] primo [illegible] motus [illegible] a quiete accelerati [illegible] [illegible] quod dividatur in tot partes aequales [illegible] minore [illegible] aequalia [illegible] est actionis [illegible] [illegible]

[illegible] primi temporis, velocitates acquisitae in fine secundi temporis [illegible] ex [illegible]
[illegible] CM [illegible] duplicata CM [illegible]
[illegible] ad CM, ut [illegible]

2 [illegible] exprimet tempus motus uniformiter accelerati, velocitatem [illegible] primi temporis [illegible] exprimat [illegible] CM [illegible]
[illegible] velocitas in fine omnis temporis [illegible] acquisita [illegible]
[illegible] CM [illegible] quaesito; [illegible]
[illegible] ad CM; et similiter [illegible] motus accelerati [illegible]
[illegible] ad [illegible] velocitatem acquisitam [illegible] temporis [illegible]; et generatim velocitates acquisitae a corpore in motu uniformiter accelerato exprimentur [illegible]
[illegible] trianguli [illegible] exprimet tempus: hoc autem triangulum [illegible]
[illegible] velocitatem motus uniformiter accelerati [illegible] in momentis [illegible]
[illegible] non est nisi figura resultans ex applicatione linearum exprimentium [illegible] ad lineam exprimentem tempus

3 [illegible] tempus [illegible] trianguli [illegible]
[illegible] acquisitae, [illegible]
[illegible]
[illegible] continet [illegible]
[illegible]
[illegible] in [illegible] aqua [illegible]
[illegible]
[illegible]
[illegible] absolute
accelerato [illegible]
et nullo [illegible]

4 In motu corporis [illegible] uniformiter [illegible]
[illegible] temporis [illegible] corpori [illegible]
[illegible]
[illegible] uniformiter [illegible]
[illegible]
[illegible]
[illegible] velocitates [illegible]
[illegible]
[illegible] velocitates [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

absolute [illegible] [illegible] [illegible] ad triangulare [illegible]
[illegible]
[illegible] spatio motu uniformiter accelerato [illegible]
[illegible] triangulis rectangulis K D & [illegible]
[illegible] velocitates [illegible]
10 Hinc [illegible] primo spatium motu uniformiter [illegible] accelerato [illegible]
[illegible] spatii quod [illegible]
[illegible] ad spatium [illegible]
[illegible] triangulo [illegible] quod K & [illegible]
[illegible] motu [illegible]
[illegible] triangulo K & [illegible] K & [illegible]
[illegible] velocitatis [illegible] geometrice [illegible]
[illegible] quare [illegible] spatii [illegible]
2 [illegible] K & ducto [illegible] duo [illegible]
[illegible] triangulo [illegible]
[illegible]
[illegible]
[illegible] velocitatis [illegible] uniformiter accelerato [illegible]
[illegible]
[illegible] velocitatis [illegible]
spatium confectum tempore [illegible]
[illegible] quadrato [illegible]
[illegible] quadratum [illegible]
[illegible] confectum tempore K [illegible]
[illegible]
[illegible] spatio [illegible]
[illegible] velocitatis [illegible]
[illegible] quadratum [illegible]
[illegible] spatia [illegible] quadrata [illegible]
[illegible] tempora [illegible]
[illegible] quadratis [illegible]
[illegible]
[illegible] tempora [illegible] composita [illegible]
[illegible] quadrata tempora [illegible] spatio [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] spatium [illegible]
[illegible]
[illegible] spatii [illegible] quadratis [illegible]
[illegible] spatiis [illegible]
[illegible]

[illegible] aequali [illegible] [illegible] Sextus

[illegible] Si corpus in motu [illegible] aequali [illegible] aequalitate [illegible] mobilibus motu [illegible] velocitatis [illegible] continuo [illegible] supponitur [illegible] motus [illegible] aequaliter [illegible] aequalia [illegible] temporibus aequalibus [illegible] mobilibus motu [illegible] in quo corporis velocitas aequalis [illegible] decrementa [illegible]

10. Porro in [illegible] de velocitatibus amissis a corpore [illegible] dato tempore [illegible] ostendimus [illegible] accelerato [illegible] de velocitatibus acquisitis [illegible] velocitates amissas [illegible] uniformiter [illegible] impetus [illegible] in motu uniformiter [illegible] in hoc motu [illegible] velocitates aequales [illegible] proportionales [illegible] velocitates amissae [illegible] accelerato [illegible] velocitas amissa a corpore in motu uniformiter [illegible] aequalis velocitati in motu [illegible] tempore [illegible]

[illegible] corpus motu uniformiter [illegible] acquisitae velocitati [illegible] aequalitate [illegible] mobilibus motu [illegible] tempusculo [illegible] amissae [illegible] aequales [illegible] tempusculo [illegible] AH aequalis [illegible] tempore [illegible] amissio [illegible] AH [illegible] aequalis [illegible] obtinebit [illegible] tempusculo [illegible] obtinebit velocitates [illegible] velocitates corporis [illegible] sed velocitates [illegible] motu [illegible] uniformiter [illegible] motu [illegible] retardato [illegible] motu uniformiter accelerato [illegible] habetur [illegible] retardato [illegible] retardato [illegible]

[illegible] motu uniformiter [illegible] spatia aequalibus temporibus [illegible] motu uniformiter accelerato [illegible] spatia [illegible] motu uniformiter [illegible] temporibus [illegible] motu [illegible] retardato [illegible]

Scolion

107 Supponimus ut de motu accelerato agemus ut spatium [illegible] motionis quo se incipit a quiete [illegible] [illegible] productum [illegible] motus uniformiter [illegible] [illegible] non incipiat [illegible] motus uniformiter accelerati [illegible] [illegible] [illegible] sint [illegible]

108 [illegible] motus [illegible] [illegible] incipit [illegible] motu accelerato [illegible] uniformiter [illegible] [illegible] velocitate [illegible] [illegible] motu accelerato [illegible] spatii [illegible] [illegible] velocitatis [illegible] [illegible] spatium [illegible] [illegible] Spatium aequalis [illegible]

109 Si vero motus uniformiter acceleratus [illegible] [illegible] AB [illegible] [illegible] motus accelerati [illegible] velocitatem [illegible] AK [illegible] triangulis [illegible] [illegible] velocitates [illegible] [illegible] triangulo [illegible] spatium [illegible]

velocitates acquisitae [illegible] ad velocitates acquisitas [illegible] [illegible] [illegible] velocitatis [illegible] [illegible] velocitatis [illegible] tempus acquisita [illegible]

2 Spatium [illegible] [illegible] AB [illegible] [illegible] motus accelerati [illegible] [illegible] spatia [illegible] [illegible] ratio

110 [illegible] motus accelerati [illegible] [illegible] tempus AB [illegible] [illegible] spatium [illegible] [illegible] triangulo [illegible] [illegible] triangulo [illegible] ratione [illegible] AB [illegible] [illegible] quadrati [illegible] AB quadrati [illegible] [illegible] [illegible] ratione [illegible] [illegible] aequae [illegible] [illegible] spatii [illegible] ratio

quae [illegible] ratione [illegible] corporis [illegible] quadrat[illegible]

~~[illegible]~~ [illegible] proportionale [illegible] quadrat[illegible]

[illegible] quadrat[illegible] [illegible] proportionale [illegible]

[illegible] diversa [illegible] proportione [illegible] velocitat[illegible]

[illegible] ~~[illegible]~~ [illegible] partes [illegible] ~~[illegible]~~

[illegible] ~~[illegible]~~ [illegible] aequalis [illegible] divisis [illegible] ~~[illegible]~~

[illegible] aequali [illegible]

[illegible] [illegible] obique difficultates [illegible]

[illegible] motu uniformiter [illegible]

[illegible] proportionalis tempori [illegible] in motu aequali uniformiter [illegible]

[illegible] quod singulis temporibus [illegible]

[illegible] continu[illegible]

[illegible] spatio [illegible] novo impulsu [illegible]

[illegible] spatio [illegible]

[illegible] quod tamen [illegible] consistat [illegible]

[illegible] novo [illegible]

[illegible] difficultas [illegible] continua [illegible]

[illegible] aequali [illegible]

[illegible] continuo [illegible]

[illegible] difficultates [illegible]

[illegible] aequalibus temporibus novi[illegible] aequal[illegible]

[illegible] spatio [illegible] in singulis aequalibus [illegible]

[illegible] impulsu [illegible] non [illegible]

[illegible] primo [illegible]

[illegible] ~~[illegible]~~ [illegible] aequ[illegible]

[illegible] quae [illegible]

[illegible] nos [illegible] continua [illegible]

[illegible] difficultate [illegible]

[illegible] absolute continua [illegible]

[illegible] velocitas [illegible]

[illegible] proportionalis [illegible]

[illegible] aequalibus temporibus [illegible] novis [illegible] aequali [illegible]

~~[illegible]~~ [illegible] corpore [illegible]

[illegible] acquisiti in motu [illegible]

[illegible] quando [illegible] infinit[illegible] [illegible]

[illegible] non [illegible]

[illegible] continua tamen [illegible] aequalis impulsio [illegible]

[illegible] spatio [illegible]

[illegible] quando [illegible]

[illegible] in spatio quod [illegible] in velocitatis [illegible]

[illegible] spatia [illegible] proportionalis [illegible]

[illegible] continua [illegible] continua [illegible]

[illegible]

[illegible] diagonalis [illegible] [illegible]

[illegible] in aequalibus [illegible] in tempore et velocitates [illegible]

[illegible]

213 [illegible] motus accelleratus [illegible] velocitas [illegible] actionibus [illegible]

[illegible] motus accelleratus [illegible] physica [illegible] [illegible] quod primus motus accelleratus [illegible] uniformis [illegible] tempusculo [illegible] actione vis [illegible] [illegible] quia [illegible] tempusculo ipso [illegible] omnes [illegible] [illegible] accelleratio [illegible] tempusculo [illegible] uniformiter [illegible]

214 [illegible] in motu [illegible] uniformiter accellerato spatia [illegible] velocitatis [illegible] [illegible] [illegible] velocitatis [illegible] [illegible] tempore [illegible]

[illegible] spatio [illegible] tempusculo [illegible] [illegible] spatiolis [illegible] [illegible] [illegible]

[illegible] concurrente et proinde spatium triplum [illegible] quo [illegible] [illegible] in serie continua [illegible] novi [illegible]

[illegible] non possunt [illegible] spatia [illegible] uniformiter [illegible] [illegible] methodo [illegible] deducta [illegible]

[illegible] distinguo [illegible] spatia [illegible] triangulis [illegible] [illegible] parallelogramma [illegible] [illegible] spatia [illegible] [illegible] rectangulo [illegible] [illegible] spatia [illegible] temporis [illegible]

[illegible] probat spatia [illegible] accelerato [illegible] uniformiter [illegible] [illegible] possunt [illegible] in respectivo [illegible] spatia [illegible]

[illegible] physicae [illegible] triangulis [illegible] continua [illegible] spatia [illegible] uniformis [illegible] continua [illegible] motus [illegible] spatia [illegible] triangulus [illegible] infinitis [illegible] spatia [illegible] in serie [illegible]

[illegible] spatia [illegible] continua motus accelerati [illegible] uniformi [illegible] [illegible] rectangulari [illegible] spatia [illegible] triangulis [illegible]

[illegible]

Secundo velocitas acquisita [illegible] velocitatem acquisitam [illegible] ad [illegible] in ratione composita [illegible] in ratione composita [illegible] ergo velocitas [illegible] acquisita [illegible] ratione composita velocitatum [illegible]

[illegible] quadrato [illegible]

Tertio [illegible] quadrato [illegible] quadrato [illegible]

Quarto [illegible]

[illegible] velocitate [illegible] spatio temporis [illegible] quadrato [illegible]

[illegible] habeat [illegible] acquisita [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] materia [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] quae [illegible] motus [illegible]

[illegible] corporis [illegible]

[illegible] velocitas [illegible] AD [illegible]

[illegible] AD [illegible]

[illegible] AC, AD [illegible]

[illegible]

[illegible] AD [illegible]

[illegible] AD [illegible]

[illegible]

[illegible]

[illegible] Ab[illegible] [illegible] parallelogrammi.

Corol. [illegible] [illegible] forma a [illegible] [illegible] ad AB [illegible] [illegible] [illegible]

[illegible] motus vero [illegible] [illegible] [illegible] [illegible] parallelogrammi [illegible] diagonalem [illegible] [illegible] lateribus [illegible]

Corol. 1

[illegible] modo [illegible] [illegible] [illegible] motus corporis a duabus viribus [illegible] parallelogrammi [illegible] diagonali [illegible]

[illegible] diagonalem [illegible] [illegible]

[illegible]

[illegible] resolutionem in duos [illegible]

[illegible]

[illegible] parallelogrammi [illegible]

[illegible] quatuor [illegible]

[illegible] quatuor [illegible]

[illegible] tempore quo [illegible]

[illegible] quinta [illegible]

[illegible] parallelogrammi [illegible]

[illegible]

corollarium [illegible]

[illegible] quae [illegible]

[illegible] parallelogramma [illegible]

[illegible]

[illegible]

[illegible] hunc

[illegible]

[illegible]

2. Si sive vires [illegible] sint hujusmodi, ut [illegible] 133 [illegible]

[illegible]

133 Si [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ratio continuo [illegible]

[illegible] uniformi [illegible] [illegible]

[illegible] A B [illegible]

[illegible] tempore [illegible]

[illegible] AB [illegible]

[illegible] Demonstratione [illegible]

[illegible] A B [illegible]

[illegible] constantia, rationes [illegible]

[illegible]

[illegible]
[illegible] corpus [illegible]
[illegible] positiones [illegible] solum [illegible]
[illegible]
[illegible] quae [illegible]
[illegible] corpus [illegible] parallelismi [illegible]
[illegible]
[illegible] quae [illegible] conditio [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] navis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] maior [illegible]
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[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] omnem quod possunt [illegible]

[illegible]

[illegible] motum producere [illegible]

[illegible]

[illegible] componentium partes [illegible]

[illegible] impossibile [illegible]

[illegible]

[illegible] producitur in ipso [illegible] causa [illegible] sive in compositione in resolutione [illegible]

[illegible]

[illegible] composizione [illegible]

[illegible] risolutione [illegible]

[illegible] risolutione [illegible]

[illegible] composizione [illegible]

[illegible]

[illegible] composizione [illegible]

[illegible] infinita et [illegible] infinitesima [illegible]

[illegible]

[illegible]

[illegible]

[illegible] quod [illegible] tempore [illegible]

[illegible] hoc BC quod [illegible]

[illegible] quod [illegible] BC [illegible]

[illegible] ut quod [illegible]

[illegible] quod [illegible]

[illegible] BC, quod [illegible]

[illegible]

[illegible] in tempore [illegible]

[illegible] temporis [illegible]

[illegible] BC [illegible]

[illegible] AC [illegible] BC [illegible]

[illegible] ordinis [illegible]

[illegible]

[illegible] motu[m] [illegible] simul [illegible] et [illegible]

[illegible]

Motus compositus [illegible] uniformiter accelerato [illegible]

225 [illegible] AB fig. 23 [illegible]

AB [illegible] et motu[m] uniformiter accelerat[um] [illegible]

[illegible] AB [illegible] AC [illegible] corpus [illegible]

corporis [illegible] et in directione AC [illegible] AH [illegible] numero [illegible]

[illegible] temporibus [illegible] motu[m] uniformiter

[illegible] ad quae [illegible] temporibus [illegible] corpus [illegible]

directione[m] [illegible] corpus [illegible]

[illegible] per [illegible] AP [illegible] 23

[illegible] per [illegible] corpus movetur [illegible]

[illegible] directione [illegible]

[illegible] pag. [illegible] 3 num. 223 [illegible]

[illegible] AH [illegible] corpus motu uniformiter accelerato [illegible]

sive abscissis AC [illegible] motu uniformi [illegible] AC, AF [illegible]

[illegible] motu uniformiter accelerato [illegible]

num. 103 [illegible] AC AF [illegible] motu uniformi [illegible]

[illegible]

[illegible] AF [illegible] AH [illegible] AH [illegible]

[illegible] ordinatas et abscissas [illegible] parabola [illegible]

[illegible] motu uniformiter accelerato [illegible]

[illegible] motus compositus [illegible]

[illegible] motus compositus [illegible] uniformi et uniformiter [illegible]

[illegible] CB [illegible] directione [illegible] AB [illegible]

uniformiter [illegible] contra directione[m] motus uniformiter accelerati [illegible]

[illegible] uniformiter [illegible]

[illegible] uniformiter [illegible]

[illegible]

motu [illegible] motu uniformiter accelerato [illegible]

[illegible] parabolica [illegible] corpus [illegible]

[227] Corollario propositio [illegible]

[illegible] motu[m] uniformiter accelerat[um] [illegible]

[illegible] parabola [illegible] tempore [illegible]

[illegible] motu compositio [illegible] AH [illegible] uniformiter accelerato [illegible]

[illegible]

[illegible]

[illegible] AB [illegible]

[illegible] per [illegible] parabola [illegible]

[illegible]

[illegible]

[illegible]

Coroll.

[illegible] primo tempore [illegible] secundo tempore [illegible] 140

[illegible] motus [illegible] in corpore [illegible]

[illegible] secundo tempore [illegible] in motu [illegible]

[illegible] secundo [illegible]

[illegible] secundo tempore [illegible] quod in [illegible] tempore [illegible]

[illegible] ab altera [illegible]

[illegible] propositione [illegible]

[illegible] primo tempore [illegible] secundo tempore [illegible]

ergo [illegible] difficultas ......

[illegible] tempore [illegible] nulla [illegible]

[illegible] secundo [illegible]

[illegible] in directione [illegible] spatium [illegible]

[illegible] tempore [illegible]

[illegible] in directione [illegible]

[illegible] spatium [illegible] in directione [illegible]

[illegible] motus [illegible] ab impulsu [illegible] 141

[illegible] propositione [illegible]

[illegible] quod [illegible] parabola [illegible]

[illegible] motus [illegible] 25 [illegible]

[illegible] A [illegible]

Contra [illegible] appellari [illegible]

[illegible] A [illegible] quod [illegible]

[illegible] periodicum: videatur num: 39. huius vero [illegible]

Propositio Prima

[illegible] in directione [illegible]

AB [illegible]

[illegible] AC [illegible]

[illegible] directione [illegible]

[illegible] in directione [illegible]

[illegible]

Propositio secunda

Corpus omne quod movetur in curva ... Describit circa centrum ... areas temporibus proportionales [illegible]

[illegible]

[illegible]

[illegible] Propositio [illegible]

[illegible]

[illegible]

Propositio quarta

[illegible]

[illegible]

[illegible]

[illegible] ... centri ... [illegible] ... quadrato ... [illegible]

1 [illegible] ... quadrato ... [illegible]

2 [illegible] ... constante ... [illegible] ... centri [illegible]

3 [illegible] ... descendente ... [illegible]

[illegible] ... 17. 29 ... [illegible]

[illegible] ... quadratus ... [illegible]

[illegible]

[illegible] ... triangulo ... [illegible]

[illegible] B a centro C [illegible] distantia [illegible] B [illegible] centro [illegible] corpus [illegible] [illegible] AB [illegible]
[illegible] aucta [illegible]

[illegible] centro [illegible] [illegible] BC [illegible] [illegible] minor [illegible] [illegible] distantia in B [illegible] [illegible]

[illegible] centro [illegible] [illegible] B [illegible] [illegible] [illegible] centro [illegible]

[illegible] centro [illegible] B [illegible] [illegible] centro [illegible] [illegible] velocitas [illegible] [illegible] distantia [illegible] centro [illegible]

[illegible] corporum [illegible] [illegible] distantia a centro [illegible] velocitas [illegible] distantia a centro [illegible] distantia [illegible] velocitate corporis [illegible] distantia centro [illegible] distantia a centro [illegible] quod [illegible]

[illegible]

[illegible] in ratione [illegible]

[illegible]

[illegible] quae [illegible]

[illegible] in ratione [illegible]

[illegible] demonstrare [illegible]

[illegible]

[illegible]

[illegible]

[illegible] distantiarum [illegible]

[illegible] Bartholomeo [illegible]

[illegible]

[illegible] maiori [illegible] radice [illegible]

[illegible] in ratione minori [illegible]

[illegible]

[illegible]

[illegible] in ratione [illegible] duplicata [illegible]

[illegible]

[illegible]

[illegible] radici [illegible] in ratione maiori [illegible]

[illegible] minori [illegible] radici [illegible]

[illegible]

[illegible]

[illegible] contradicitur [illegible]

[illegible]

[illegible] 93 [illegible]

[illegible]

[illegible]

[illegible]

[illegible] minori radicis [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 146 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] in motu [illegible]

[illegible]

[illegible] secundum [illegible] incremento [illegible] quod [illegible]

[illegible] centro [illegible] apparent

10. [illegible] quod [illegible] et [illegible] centro [illegible] centro [illegible] potterit [illegible]

[illegible] a centro [illegible] in [illegible] centro [illegible] distantia [illegible]

[illegible] centro [illegible] gravitas [illegible]

[illegible] centrum [illegible] per dimidiam distantia a centro ipso [illegible] a centro distantia [illegible]

5 [illegible]

[illegible] projectionis [illegible] ad centrum [illegible] argumentum [illegible] a centro [illegible]

Nec vero obstat quod [illegible] corpus [illegible] centro [illegible] in centro [illegible] simul [illegible] ad [illegible] non [illegible] et semper [illegible] quae [illegible] ad centrum accedat [illegible] compositio [illegible]

[illegible] nobis adversarios [illegible] [illegible] et decrescentes in ratione reciproca [illegible] projectionis et [illegible] reciproca decrescente [illegible] motus [illegible] ad centrum [illegible] continuo [illegible] difficultas solvitur.

[illegible] ex [illegible] continuo [illegible] composito [illegible] velocitate compositionis [illegible] quod corpus [illegible] compositionis [illegible] velocitatis compositionis [illegible] adversarii [illegible] velocitatis [illegible] centrum [illegible] gravitate [illegible] [illegible] centro [illegible] distantia [illegible] continuo

[illegible] compositionis [illegible] minima [illegible] in [illegible] debere [illegible]

[illegible] distantia corporis [illegible]
[illegible]

[illegible] corporis [illegible] [illegible] [illegible] [illegible]

Nec obstat quod [illegible] [illegible]

[illegible]

Propositio Septima

3 [illegible]

Corollarium Primum

152 Si [illegible]

Corollarium Secundum

3 [illegible]

Propositio Octava

153 [illegible]

[illegible]

255 [illegible]

256 [illegible] quadrato [illegible] quadrati [illegible]

257 [illegible]

258 [illegible]

259 [illegible]

[illegible] ut magis [illegible] ut [illegible]

[illegible] jurisdictionis [illegible]

[illegible] conversionem [illegible]

6 [illegible] ad [illegible] aequales

[illegible] expositi [illegible] inter [illegible] similes [illegible]

[illegible] de [illegible]

1 [illegible]

2 [illegible] BD [illegible] ad [illegible] opposita

3 [illegible] opposita [illegible] in ratione [illegible] ad [illegible] aequales [illegible]

[illegible] anguli [illegible] rationem [illegible]

[illegible] aequales [illegible]

[illegible] non [illegible] similes [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Problema Tertium

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

169 [illegible]

[illegible]

170 [illegible]

[illegible] ... massas [illegible] velocitates [illegible] particulas [illegible] ... contrarium [illegible]

[illegible] Si corpora [illegible] quae duos [illegible] ... [illegible] velocitates [illegible] ... [illegible]

[illegible] Si in corpora [illegible] velocitas [illegible] velocitas acquisita [illegible] ... [illegible] multiplicatur [illegible] ... quantitates motus [illegible] ... sive quae acquisitae sunt, aut amissae [illegible]

[illegible] Si corpora [illegible] ... [illegible] mutatio [illegible] quod [illegible] contraria [illegible] velocitas [illegible] ... [illegible] velocitas [illegible] ... [illegible]

[illegible] Si corpora [illegible] ... [illegible]

[illegible]

[illegible] ... [illegible]

[illegible] ... [illegible]

[illegible] numer[illegible] [illegible] [illegible] [illegible] [illegible]

Si toti systemati corporum [illegible] [illegible] [illegible] contrarios et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] centro communi [illegible] [illegible] [illegible] [illegible] primo [illegible] communi [illegible] nullo [illegible] motu [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] attractione [illegible] [illegible] [illegible] gravitatis [illegible] communi motus [illegible] motus [illegible] producatur [illegible] gravitatis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centro communi [illegible] [illegible] [illegible] [illegible] [illegible] communes [illegible] motus [illegible] [illegible] [illegible] [illegible] communia [illegible] [illegible] gravitatis [illegible]

[illegible]

[illegible] AB [illegible] elastica, [illegible] in collisione [illegible] [illegible]
[illegible] continget mutatio status [illegible]
[illegible] elastica [illegible] elasticitate [illegible]
[illegible] compressione [illegible]
[illegible] contrarias [illegible] B [illegible]
[illegible] per [illegible] minus [illegible]
[illegible] velocitatem [illegible] minus [illegible] per [illegible]
[illegible] erit [illegible] velocitas [illegible] minus [illegible] per [illegible]
[illegible] minus [illegible] plus [illegible] per [illegible] in corpore [illegible] B [illegible]
[illegible] per [illegible] plus [illegible] minus [illegible]
[illegible] velocitate [illegible] velocitas [illegible]
[illegible] minus [illegible] plus [illegible] per [illegible] plus [illegible] positivum [illegible]
[illegible] corpore [illegible] in parte contraria [illegible]

[illegible] AB non [illegible] [illegible] quae compressionem [illegible]
mutatio [illegible] elasticitate [illegible]
[illegible] compressionis [illegible] elasticitatis [illegible]
[illegible] elasticitate [illegible]
[illegible] acquisita [illegible] a corpore B [illegible] minus [illegible] per [illegible]
[illegible] minus [illegible] per [illegible]

[illegible] corpora [illegible] in [illegible] contrariae [illegible]
[illegible] collisionem [illegible]
[illegible]
[illegible] in [illegible] velocitates [illegible]
[illegible] B [illegible] velocitatem [illegible]
[illegible] B plus [illegible] plus [illegible]
[illegible] motus [illegible] elasticitas B [illegible]
[illegible] motus [illegible]

[illegible] perpendiculariter AB [illegible] immobile [illegible]
[illegible] elasticitate [illegible]
[illegible] elasticitas [illegible]
[illegible]
[illegible] elasticitas [illegible] elasticitatem [illegible]

[illegible] in plano immobili [illegible] AB [illegible]
[illegible] B [illegible] AB [illegible]
[illegible] B [illegible]
[illegible] AB [illegible] plano [illegible]
[illegible] immobili [illegible] plano [illegible]
[illegible] AB [illegible]
[illegible] B [illegible] elasticitas [illegible]
[illegible] in corpore [illegible] AB [illegible] acquirit elasticitate [illegible] B [illegible]
[illegible] elasticitas [illegible] AB [illegible]
[illegible] elasticitate [illegible]

[illegible] BA [illegible] motus [illegible] angulo CBA [illegible]

[illegible] angulus KBF [illegible] angulo CBA [illegible]

[illegible] motus a parietem [illegible]

[illegible] Corollarium, quod angulus [illegible] motus [illegible]

[illegible] plano [illegible] incidentia

2 [illegible] in quod corpus [illegible] incidentia, [illegible]

3 AB perpendicularis plano incidentiae [illegible] perpendicularis [illegible]

4 [illegible] BA [illegible] perpendicularis [illegible]

[illegible] incidentia

[illegible] angulus KBF [illegible] perpendicularis [illegible] angulus reflexionis

[illegible] reflexio [illegible] motus [illegible] plano [illegible]

[illegible] refracti [illegible] perpendiculo KBH [illegible] angulus refractionis

[illegible] motus [illegible] velocitate [illegible] corpus [illegible] BC [illegible]

[illegible] motus corporis [illegible] velocitas [illegible] BC [illegible]

[illegible] angulus [illegible] incidentia [illegible]

[illegible] motus corporis [illegible] velocitas [illegible] incidentia [illegible]

[illegible] velocitas [illegible] incidentia

[illegible] motus [illegible] velocitatis [illegible] angulo refractionis [illegible]

[illegible] angulus incidentiae [illegible]

2 [illegible] quod [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] refractionis [illegible] [illegible] [illegible]
[illegible] refractio [illegible] necessitate, [illegible] [illegible] [illegible] [illegible]
Observandum [illegible]

3 [illegible] quod [illegible] refractio [illegible] [illegible] [illegible] commutatione velocitatis [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] perpendicularis [illegible] secundum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] proportionem [illegible] [illegible]
[illegible] [illegible]

1714

Sectio Tertia
De vi Centrifuga

215 [illegible] est quod diversa [illegible] qui [illegible] sint de vi centrifuga, [illegible] in [illegible] [illegible] ad definitionem [illegible] [illegible], [illegible] centrifuga [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnes [illegible] [illegible] locus est in centrifuga, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centro [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a centro [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] si corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] radio [illegible] describatur circulus [illegible] [illegible] [illegible] centrifuga [illegible] [illegible] [illegible] [illegible] a centro C, [illegible] in curva [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centrifuga, [illegible] centripeta [illegible], [illegible] [illegible] [illegible] [illegible] major [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et corpus [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] a centro [illegible] [illegible] [illegible] centripeta.

216 [illegible] projectiones et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] centrifuga. [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centripeta, [illegible] a centro [illegible] [illegible] [illegible] [illegible] [illegible] quod in [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod centrifuga [illegible], [illegible]

1 [illegible] centrifuga non [illegible] [illegible], [illegible] [illegible] [illegible] quod habere corpus in centripeta [illegible] [illegible] [illegible] ad [illegible], [illegible] [illegible] [illegible] a centro, [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible], [illegible] quod [illegible] [illegible] [illegible] centripeta et [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]

2 [illegible] [illegible] [illegible] non [illegible] [illegible] quod corpus [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] a centro, [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible], et [illegible] [illegible] [illegible], ad quod [illegible] [illegible] [illegible] centripeta.

3 [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et imaginaria et [illegible] [illegible] effectus quod [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] effectum [illegible]

4 [illegible] centrifuga [illegible] [illegible] centripeta, [illegible] [illegible] effectus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centrifuga [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt: [illegible] [illegible] [illegible] [illegible] contrarii [illegible] sunt [illegible] [illegible], [illegible] [illegible] erit [illegible] [illegible] [illegible] [illegible]

[illegible] ... in motibus curvilineis ... [illegible] ... projectionis et centripeta oritur et conservari ... [illegible]

[illegible] ... Sed hic quaedam ... [illegible] ... centrifuga ... [illegible]

[illegible] ... a telluris diurno motu ... gravitatis ... [illegible] ... ut corpora minus prope aequatorem gravia sint quam prope polos

[illegible] ... a centro ... centrifuga ... ad centrum.

[illegible] ... a motu telluris diurno corporum terrestrium gravitas ... aequatorem ... major prope polos ... [illegible] ... vis centrifuga ... [illegible] ... Boschi ... [illegible] ... gravitatem ... [illegible]

[illegible] ... omnium gravitatem ... [illegible] ... particularum ... [illegible] ... terrestrium corporum ... [illegible]

[illegible]

[illegible] ... aequatorem ... [illegible] ... minor ... prope polos ... [illegible] ... gravitatis ... [illegible]

[illegible] ... aequatorem ... [illegible] ... motu telluris ... prope polos ... aequatorem ... gravitas corporum ... [illegible]

[illegible] ... in ipsis terrestribus corporibus producatur et conservetur ... [illegible]

[illegible] ... centrifuga ... [illegible] ... motus centrifugi ... [illegible]

[illegible] ... ut explicavimus hoc loco [illegible]

[illegible] Caput [illegible] ... de Attractione [illegible]

Attractio [illegible] ... movantur [illegible] ... quibus apud [illegible] utrique [illegible] capitibus [illegible]

Caput [illegible] ... De existentia Attractionis particularis

[illegible] ... planeta [illegible] ...

[illegible]

2 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] in aqua [illegible]

[illegible]

[illegible]

94 [illegible]

[illegible]

[illegible] demonstratio [illegible]

[illegible]

[illegible] experimenta et observationes [illegible]

[illegible] observationes [illegible]

[illegible]

[illegible]

[illegible] inductione [illegible]

[illegible] experimenta et observationes [illegible]

[illegible] ratio [illegible]

[illegible] experimenta et observationes [illegible]

[illegible] ratio [illegible] 196

[illegible]

[illegible]

[illegible] 197

[illegible] experimentum [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] experimenta [illegible]

[illegible]

[illegible] 199

[illegible]

[illegible]

[illegible]

[illegible] Boscovich [illegible]

[illegible]

[illegible] Newton [illegible]

[illegible]

De legibus attractionis particularis

[illegible] attractionis particularis [illegible]

[illegible] attractio in contactu [illegible]

[illegible] vis attractionis particularis [illegible]

[illegible]

3 [illegible] attractionem [illegible]

[illegible]

Lemma 3

[illegible]

204 [illegible]

[illegible]

[illegible]

205 [illegible]

1 [illegible]

[illegible]

3 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

vapores, ita fumus et flamma graves [illegible]

[illegible]

[illegible]

[illegible]

[illegible] gravitatis [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] materia [illegible]

[illegible]

[illegible] experimenta [illegible] levitate [illegible] absoluta [illegible]

[illegible] frigido [illegible]

[illegible]

[illegible] experientia levitatis [illegible] absolutae [illegible]

[illegible] gravia [illegible] centrum [illegible]

[illegible]

[illegible]

[illegible] ... positive ... [illegible]

[illegible]

23) [illegible]

[illegible] ... vapores ... [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

24 [illegible]

[illegible]

[illegible]

25 [illegible] ... flammae ... [illegible]

[illegible] sua subiecta [illegible]

2 [illegible] in [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... in sole ... [illegible]

... [illegible] animalibus [illegible]

[illegible] gravitatis sive gravitationis universalis

[illegible] gravitatis [illegible] Newtoni [illegible] ad centrum [illegible]

[illegible]

[illegible] ... a centro ... [illegible]

[illegible]

[illegible] ... ad centrum [illegible] ... ab ... [illegible]

[illegible]

... in propriis orbitis [illegible]

[illegible]

[illegible] ratio [illegible] maxima [illegible] [illegible] in [illegible] [illegible]
[illegible] gravitatione [illegible] ratione [illegible] [illegible] in luna [illegible]
[illegible] [illegible] triplicata [illegible] in corporibus [illegible]
[illegible] minor multo est quod in luna [illegible] [illegible] gravitatione [illegible]
[illegible] [illegible] [illegible] [illegible] observatio, et [illegible]
[illegible] triplicata [illegible] [illegible] [illegible] observatio [illegible]
ratione [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible]
[illegible] attractione [illegible] [illegible] [illegible] planetarum a Sole [illegible]
[illegible] cometis [illegible] [illegible] [illegible] attractione [illegible] [illegible]
[illegible] planetarum cometarum [illegible] [illegible] [illegible] tamen gravitas [illegible] [illegible]
[illegible] ratione [illegible] [illegible] distantiarum

[illegible] gravitas in circumferentia [illegible] [illegible] sequitur rationem [illegible] [illegible] [illegible]
[illegible] de corpora terrestria [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] rationem [illegible] [illegible] in [illegible] [illegible] quantitate [illegible]
[illegible] [illegible] [illegible] [illegible] media [illegible] distantiarum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] terra [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] sequitur rationem [illegible] [illegible] distantiarum

[illegible] [illegible] [illegible] [illegible] in [illegible] circa centrum [illegible]
[illegible] [illegible] [illegible] distantiae quadrata [illegible] [illegible]
[illegible] distantiarum [illegible] [illegible] [illegible] [illegible] [illegible] vires [illegible]
[illegible] [illegible] circa centrum [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] vires [illegible] sequuntur rationem
[illegible] triplicatam distantiarum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] gravitatem [illegible] [illegible] [illegible] terrestrium sive [illegible] terrestrium [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] satis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] spatia [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] gravitatem corporum terrestrium [illegible] [illegible] spatio [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] tempore [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in motu accelerato sint ut quadrata [illegible]
[illegible] [illegible] tempore [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] sexagesimis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] orbita [illegible] partium [illegible] septendecim [illegible] sexaginta [illegible] millionum [illegible]

[illegible] mille [illegible] luna [illegible] septem [illegible] minutis primis [illegible] [illegible]

[illegible] [illegible] [illegible] quadrante [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] mille [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] tres millia [illegible] tres mille [illegible]

[illegible] omnia [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] minuto primo [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] bis mille [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] mille [illegible]

[illegible] [illegible] [illegible] [illegible] bis mille [illegible] [illegible]

[illegible] [illegible] tres mille [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] gravitas terrestrium corporum ad gravitatem lunae, [illegible] [illegible] [illegible]

[illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] minuto primo [illegible] [illegible] mille [illegible] [illegible]

[illegible] [illegible] luna [illegible] [illegible] a centro telluris [illegible] corpora [illegible]

telluris [illegible] [illegible] [illegible] [illegible] [illegible] duodecim [illegible]

[illegible] quadratum [illegible] distantia, [illegible] a centro telluris [illegible] [illegible]

[illegible] terrestrium [illegible] [illegible] terrestrium corporum ad gravitatem lunae [illegible]

[illegible] distantia lunae ad quadratum distantiae corporum terrestrium a centro [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] lunae [illegible] [illegible] distantia [illegible] [illegible]

[illegible] [illegible] orbita lunari [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

229 [illegible] gravitas corporum terrestrium [illegible] ratio [illegible] [illegible] distantiarum [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] telluris [illegible] corpora [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] ratione reciproca [illegible] distantiarum a centro [illegible]

[illegible] [illegible] ratione [illegible] [illegible] a centro [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] omnia [illegible] [illegible] [illegible] gravitas [illegible]

[illegible] [illegible] [illegible] reciproca duplicata distantiarum [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible] [illegible] gravitatis [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] telluris [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] a centro [illegible] terrestri [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] gravitate [illegible]

[illegible] et diversis [illegible] potest [illegible] ad quadratum [illegible] octo centum [illegible] milliones [illegible] mille [illegible] decimis tertiis [illegible] acceleratio [illegible] naturalis [illegible]

Sol. [illegible] solutio [illegible] in ratione [illegible] constat [illegible] in ratione [illegible] diversis [illegible] a ratio [illegible] pro diversis [illegible] superficie [illegible] consequitur [illegible] constat [illegible] generatio [illegible]

30 [illegible] duas [illegible] accidit [illegible]

[illegible] in ratione [illegible] in proportione [illegible] quod [illegible] manifesta [illegible] est [illegible]

31 [illegible] quod obstat [illegible] in ratione [illegible] minori [illegible] corpora [illegible]

[illegible] vera [illegible] distingui deberent [illegible]

[illegible] attractio [illegible] corpora [illegible] attractiones solis in planetas ac cometas [illegible] ipsa [illegible] vicissim.

[illegible] Hujus propositionis [illegible] universalis attractionis [illegible] corporis [illegible] terra [illegible]

[illegible] corporis [illegible] materiae [illegible]

22

[illegible] quadratis distantiarum [illegible] gravitates [illegible] quadrata distantiarum [illegible] materiae [illegible] quantitati [illegible]

[illegible] centro [illegible] distantiis [illegible] materiae [illegible]

[illegible]

[illegible] corpora [illegible]

[illegible]

Scholium universale

[illegible] ... mechanicus [illegible] ... [illegible]

[illegible] ... omnes [illegible] ... [illegible]

[illegible] ... necessarios [illegible] ... proveniant sive [illegible]

[illegible]

[illegible] ... corporum conservationem [illegible]

[illegible] ... omnes corporum [illegible]

[illegible] ... conservatione [illegible]

[illegible]

[illegible] ... corporum [illegible] ... temperatum [illegible]

[illegible]

[illegible]

[illegible] ... conservationi [illegible]

[illegible] ... necessaria est.

[illegible]

[illegible]

[illegible]

[illegible] ... necessaria [illegible]

[illegible] ... mechanicis [illegible]

[illegible]

[illegible] ... principiis [illegible]

[illegible]

[illegible] ... simplices esse [illegible]

[illegible] ... operationi [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... principia [illegible]

[illegible]

[illegible]

[illegible] ... actionis [illegible]

[illegible] ... naturale [illegible]

[illegible] ... in natura [illegible]

[illegible] ... natura [illegible]

[illegible]

[illegible] ... in natura ... [illegible]

[illegible] ... cosmologicae ... [illegible]

[illegible] in natura

Ad haec loquitur cosmologiae ... [illegible] ... quaestionibus philosophicis ... [illegible] ... experientia ... [illegible]

[illegible] ... principio ... corpora ... [illegible] ... mechanicae ... [illegible]

[illegible] ... corpora ... cosmologicae ... [illegible]

[illegible] ... mechanicos ... cosmologicae ... [illegible]

[illegible] ... mechanicos ... cosmologicae ... [illegible]

Studium cosmologiae ac metaphysicae diversa finis est

Physica
Praefatio

[illegible] 6

[illegible]

[illegible] 2

Elementorum Physicae
Pars Prima Physica Generalis

[illegible] ... Physica ... corpora ... [illegible]

[illegible] ... mechanica ... [illegible]

[illegible]

Vege cc

Considerationes circa principia de proprietatibus corporum

1 Quandoquidem id nobis intuitu [illegible] comprehendere possumus et corpora quae res sitas [illegible] appellamus corpora [illegible] quos veritatibus [illegible] nobis novimus omnino [illegible] [illegible] quae existentiam [illegible] rationem [illegible] verum [illegible] qui in haec [illegible] inquirant [illegible] majorem [illegible] corporum [illegible] confirmare [illegible] [illegible] sit contraria sequi veritatem [illegible] de [illegible]

2 Qui [illegible] corporum quae est essentia et natura? [illegible] in [illegible] aliquo [illegible] in errorem [illegible] et quo [illegible] [illegible] principia [illegible] ratio [illegible] non est ac simpliciter ut [illegible] in his [illegible] in illis essentia [illegible] [illegible] [illegible] aliquo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humanis [illegible] [illegible] corporum [illegible] essentia corporum [illegible] [illegible] essentia

3 Corpora [illegible] et materia constant et principiis a quibus [illegible] materia [illegible] sit, quae corpora constituant [illegible] [illegible]

4 [illegible] [illegible] quae [illegible] non [illegible] quae a primariis [illegible] [illegible] quae primariis sunt

5 [illegible] corpora [illegible] [illegible] [illegible] [illegible] corporum [illegible] [illegible] in [illegible] in quaestionem [illegible] [illegible] in corporibus [illegible] nostris [illegible], ut color, sonor, et [illegible] in infinitum [illegible] corporum [illegible] in [illegible] [illegible] corporum principia [illegible] sunt et composita [illegible] et natura, et [illegible] [illegible] [illegible] [illegible] tionem confert.

6 Solidas [illegible] [illegible] [illegible]
Quae secundarias vero sunt

7 [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

8 [illegible] actiones [illegible] [illegible] [illegible] [illegible] motu [illegible] [illegible] [illegible] [illegible]

9 [illegible] [illegible] [illegible] [illegible]

10 [illegible] [illegible] corporum [illegible] et [illegible] impressionem [illegible] [illegible] [illegible]

[illegible] mortalitas [illegible] mort [illegible] et [illegible] per [illegible] in [illegible]

[illegible] vere corpora [illegible] partes [illegible] partes separantur [illegible] partis

[illegible] quae [illegible] convenire [illegible] et [illegible] capacitas [illegible] per [illegible] quae [illegible] est [illegible] persona

[illegible] quae est [illegible] partium [illegible] et [illegible] dispositio [illegible] vel permittitur vel negatur

[illegible] huiusmodi [illegible] sive [illegible] [illegible] omnes [illegible] et [illegible] iuxta [illegible] et [illegible] species

[illegible] quae sunt omnium [illegible] et [illegible] corporis [illegible] corporis [illegible]

[illegible] corporis [illegible] et [illegible] quae [illegible] et [illegible]

[illegible] autem [illegible] sive [illegible]

[illegible] quod tamen [illegible]

Propositio Secunda

Omnia coelestia corpora [illegible] gravia sunt [illegible] ipsa non minus ac corpora terrestria

[illegible] Prob. Nam corpora omnia coelestia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] num. [illegible] corpora [illegible] [illegible] [illegible] omnes [illegible] habent [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tendunt [illegible] graves sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] gravitate [illegible] [illegible] et [illegible] [illegible] [illegible] corpora [illegible] [illegible] gravia [illegible] [illegible] [illegible] [illegible] habent [illegible] gravitatis [illegible]

Propositio Tertia

Primarii planetae ac [illegible] gravia sunt in solem, secundarii vero gravia sunt in [illegible] primarios

[illegible] Prob. Nam planetae primarii ac cometae [illegible] [illegible] [illegible] [illegible] secundarii [illegible] [illegible] circa primarios [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ac cometae habeant vi [illegible] [illegible] solem et secundarii [illegible] habebunt in [illegible] primarios [illegible] [illegible] [illegible] vis [illegible] [illegible] [illegible] [illegible] gravitatem [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primariorum [illegible] secundariorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarii ac cometae in solem, secundarii in primarios graves sunt

[illegible] secundarii [illegible] circa primarios suos revolvuntur [illegible] [illegible] [illegible] [illegible] primarios suos [illegible] [illegible] primarii, ita et secundarii [illegible] in solem habere debebunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarii omnes planetae

Propositio Quarta

Corpora omnia coelestia gravia sunt in [illegible] [illegible] [illegible] gravis est in [illegible] [illegible] [illegible] secundarios et [illegible] primarii vero in suos [illegible] secundarios graves sunt.

[illegible] Prob. [illegible] actioni contraria [illegible] [illegible] idque in attractionibus [illegible] num. 166 [illegible] [illegible] [illegible] [illegible] num. 200 [illegible] [illegible] [illegible] [illegible] [illegible] num. 213 [illegible] [illegible] [illegible] [illegible] [illegible] num. 214 [illegible] terrestria corpora trahunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ac cometae attrahunt solem secundarii [illegible] [illegible] [illegible] corpora omnia coelestia gravia sunt in [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] sol in centro [illegible] systematis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora ipsa moveri [illegible]

[illegible] [illegible] [illegible] [illegible] sol [illegible] [illegible] in centro [illegible] systematis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centrum [illegible] systematis [illegible] [illegible] [illegible] planetis [illegible] [illegible] gravitate [illegible] solem [illegible] non [illegible] in solem [illegible] num. [illegible] [illegible] [illegible] [illegible] gravitate [illegible] [illegible] [illegible] [illegible] planetas [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] impressiones [illegible] motus [illegible]

[illegible] Itaque

Propositio Quinta.

Planetae omnes [illegible] gravitatem in se mutuo

[illegible] gravitati [illegible]

omnes [illegible] observationes [illegible] variationes [illegible]

[illegible] observationes [illegible] planetae omnes ac cometae [illegible]

et [illegible] observationum [illegible] respondere [illegible]

in [illegible] Ergo planetae omnes ac cometae [illegible] se mutuo [illegible] gravitabunt.

Propositio Sexta

Corpora omnia [illegible] gravitare in omnia [illegible] et mutua est [illegible]

Propositio [illegible] omnia corpora [illegible] in omnia mutuo [illegible]

[illegible]

[illegible]

[illegible]

[illegible] planetae ac cometae [illegible]

[illegible] corpora omnia gravitabunt in se mutuo

[illegible]

[illegible] corpora omnia in [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] omnia corpora [illegible] omnia [illegible]

[illegible] gravitatis [illegible]

[illegible]

[illegible]

[illegible] quod [illegible] immotum, attrahere [illegible] positione monte alta [illegible]

[illegible] alter a [illegible] telluris, si [illegible] tunc [illegible] quod [illegible]

[illegible] telluris [illegible] corpori [illegible]

[illegible]. Itaque omnia corpora gravitant in se mutuo et [illegible] attractio [illegible]

corporibus omnibus [illegible]

[illegible] Contra: licet actioni contraria et aequalis reactio sit, attractio tamen non debet esse aequalis et mutua, [illegible]

[illegible] attrahit [illegible] videtur alio [illegible] quae [illegible] attrahenti [illegible]

[illegible] adesse debet. Porro ex principio actionis et reactionis aequalis [illegible]

[illegible] principii actionis et reactionis mutuae, et aequalis [illegible] ad attractionem [illegible]

ibi observo principium actionis et reactionis contrariae et aequalis illud importare ut se unum corpus [illegible]

[illegible] mutet, [illegible] aequaliter [illegible]

Itaque si corpus [illegible] corpori alterius attractione mutet, [illegible] corpus [illegible] attrahendo [illegible]

[illegible] debuit [illegible] corpus [illegible] attrahit ad se aequaliter corpus [illegible]

[illegible] principio actionis et reactionis aequalis et contrariae [illegible] attractio [illegible] debere [illegible]
aequalem [illegible]

[illegible] analogia [illegible] traducitur ad [illegible] etiam corpora [illegible] valere [illegible] gravitatem [illegible]

ad [illegible] gravitatem [illegible] gravitari in corpora terrestria [illegible] telluri [illegible]

[illegible] quod [illegible] analogiam [illegible]

[illegible] terrestria [illegible] non [illegible]

[illegible] et analogia [illegible] necesse non est ut in omnibus conveniant corpora, sed sufficit [illegible]

[illegible] in gravitatis [illegible]

adducere adversarii [illegible] terrestria corpora, et [illegible]. Itaque [illegible] terrestria corpora [illegible] gravitatem

[illegible] in [illegible] gravitare [illegible] analogia [illegible] corpora [illegible]

[illegible] corpora [illegible] non attrahat [illegible]

[illegible] corpus [illegible] attrahi a tellure [illegible]

[illegible] attrahere. [illegible] non affirmationem deinde.

Porro hunc vero [illegible] dices de gravitate [illegible] quam ab analogia [illegible] itaque [illegible]
[illegible] traducitur [illegible].
apud [illegible].

[illegible] gravitatis, sive attractionis [illegible]

[illegible] gravitatem [illegible] corporibus [illegible]

[illegible] gravitatem sive attractionem [illegible]

[illegible] corporis [illegible]

[illegible] gravitatem [illegible] quod [illegible]

[illegible] attrahit [illegible]

[illegible] gravitatem [illegible]

[illegible] omnes [illegible] partiuncul[illegible]

[illegible] quae [illegible] eadem [illegible]

[illegible] gravitas [illegible]

Propositio [illegible].

Gravitas acceleratrix corporum [illegible] tendentium [illegible] corpus [illegible]

[illegible] rationem reciprocam duplicatam [illegible] distantiarum a corpore [illegible] in quod tendunt.

[illegible] gravitas acceleratrix [illegible]

[illegible] et similiter gravitas acceleratrix [illegible]

[illegible]

[illegible] rationem [illegible] duplicatam [illegible]

[illegible] gravitas acceleratrix [illegible] in sole [illegible]

[illegible] rationem [illegible] duplicatam [illegible] gravitas [illegible]

[illegible] acceleratrices [illegible] in sole [illegible]

[illegible]

[illegible]

[illegible] rationem [illegible] duplicatam [illegible] gravitatis acceleratricis [illegible]

[illegible] gravitas acceleratrix [illegible]

[illegible] gravitas acceleratrix [illegible]

[illegible] duplicata [illegible] rationem [illegible] gravitates [illegible] acceleratrices [illegible]

[illegible]

[illegible] acceleratrices [illegible] rationem reciprocam duplicatam [illegible] distantiarum [illegible]

[illegible] gravitate [illegible]

[illegible]

[illegible] Theoria haec [illegible]

[illegible]

[illegible]

[illegible]

[illegible] gravitas acceleratrix [illegible]

236 [illegible] in [illegible] aequali velocitate descendant omnia corpora [illegible] aut voluminis [illegible]
[illegible] in libro [illegible] [illegible] Academiae [illegible]
[illegible] aequali velocitate [illegible] descendant [illegible]
[illegible] aequali [illegible] descendere

Sed corpora [illegible] in aequali velocitate [illegible] experimenta [illegible]
[illegible] observavit [illegible]
[illegible] experimenta [illegible]
[illegible] corpora [illegible] aequali ad [illegible] velocitate [illegible]
[illegible] corpora [illegible] offerant [illegible] corpori [illegible]
[illegible] velocitatis differentia [illegible]
[illegible] majorem [illegible] graviori minorem [illegible]

237 [illegible] corporum gravitas non [illegible] materiae [illegible]
a [illegible] particulis [illegible] est [illegible]
[illegible]
c [illegible] corporum [illegible]
[illegible]
[illegible] gravitas [illegible]
d [illegible]
[illegible]

[illegible] ... aequali volumine fluidi continetur [illegible]

[illegible]

[illegible]

[illegible] qui principio aquae [illegible]

[illegible]

[illegible]

[illegible] quantitas materiae [illegible] minor [illegible] fluidi [illegible]
[illegible] fluidi immersi

[illegible]

[illegible] corpore [illegible] graviora [illegible] corporum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] corporis [illegible]

[illegible] aqua [illegible] materia [illegible]
[illegible] volumine [illegible] materiae [illegible] volumine aquae
[illegible] aqua [illegible]
[illegible]
[illegible] volumine [illegible] descendit [illegible]
[illegible]
[illegible]
[illegible] gravitate

3 [illegible]
[illegible] ponderis [illegible]
[illegible]

[illegible] Animalia [illegible]
[illegible]
[illegible]
[illegible]

[illegible] corpora [illegible]
[illegible]
[illegible] volumine [illegible]
[illegible]

[illegible] volumine [illegible]
[illegible]
[illegible] aquae volumine [illegible]
[illegible]
[illegible]
[illegible] volumine [illegible] materiae [illegible]
[illegible] aquae [illegible]
[illegible] aquae [illegible]
[illegible] volumine aquae [illegible]
[illegible] materia

9. [illegible] 2 [illegible]
[illegible]

2. [illegible]
[illegible]

[illegible]
[illegible]
[illegible] gravitatem [illegible]
[illegible]
[illegible] materiae [illegible]

[illegible] ... quantitati materiæ respondebit ... descendendo ...

Obj. 13. Corpora majoris massæ habent majorem gravitatem ... ergo majori ... [illegible]

... in vacuo ... gravitate ... [illegible] ... corpora majoris massæ ... [illegible]

[illegible]

[illegible]

A3 [illegible] gravitatem esse [illegible] materiae [illegible]

[illegible]

[illegible] gravitatis [illegible]

[illegible] demonstratione [illegible] gravitatem [illegible] materiae quantitatem [illegible] corpora [illegible] gravitatis [illegible] demonstrationis [illegible]

A4 [illegible] corpora [illegible] gravia [illegible] materia [illegible] corpora [illegible]

[illegible] omnis [illegible] corporis [illegible] quantitatem materiae [illegible] materiae [illegible] totius corporis [illegible]

A5 [illegible] gravitatem [illegible] corpora [illegible] gravitatis [illegible] materiae [illegible]

A5 [illegible] corporis [illegible] corpus [illegible] corpora [illegible] gravitas [illegible]

[illegible] corporis [illegible] corpora [illegible] materiae [illegible]

149 Si [illegible] corpora [illegible] gravitatem haberent [illegible]
[illegible] 149
[illegible] corpora [illegible]

[illegible] materiae [illegible] inter [illegible]
corpora [illegible] gravitatem [illegible]
[illegible]
[illegible] composita [illegible] distantiis [illegible]
centro [illegible] a centro [illegible] trahitur [illegible]
[illegible]
[illegible] corpus [illegible]
[illegible] ad gravitatem [illegible] corpus [illegible]
[illegible]
[illegible]
gravitatem in corpus [illegible] gravitas [illegible] gravitatem [illegible]
[illegible]

[illegible] corporis terrestris [illegible], [illegible] terrestri [illegible] [illegible], ontaque attrahat [illegible] movere [illegible] [illegible] esse [illegible]

[illegible] et [illegible] [illegible] motu [illegible] nec adeo [illegible] potesit [illegible]

[illegible] ipsius [illegible] [illegible].

[illegible] Hinc [illegible] [illegible] gravitas [illegible] [illegible]

[illegible] et [illegible] [illegible] in [illegible]

[illegible] in [illegible] distantiis [illegible] sese attraherent [illegible]

[illegible] et vel modica [illegible] moveri [illegible] [illegible] distantiis [illegible]

[illegible] vim [illegible] in [illegible] et ipsorum corporum gravitati [illegible]

[illegible] hinc [illegible] [illegible] ad mutuam [illegible]

particularum attractionem motumque [illegible].

2 [illegible] aliqua [illegible] [illegible] a grandioribus [illegible] massa [illegible]

[illegible] montis [illegible] radices montis [illegible] millia [illegible]

[illegible] ipsius [illegible] [illegible] [illegible]

[illegible]: hinc certe Bouguerio ac Condaminio [illegible] montis [illegible]

[illegible] qui [illegible] [illegible] observarunt [illegible]

[illegible] montis attractionem [illegible] perpendiculo [illegible]

[illegible] perpendiculo [illegible] quo [illegible]

[illegible] quam [illegible] [illegible]

[illegible] ad [illegible]

[illegible]:

[illegible] animadvertere [illegible] massa [illegible]

[illegible] [illegible] montes [illegible]

[illegible] omnia, et [illegible] Bouguerius [illegible]

Chimboraco [illegible] et densitate [illegible]

[illegible] perpendiculo [illegible] [illegible]

[illegible] terris [illegible] [illegible]

in monte [illegible] [illegible] [illegible] et [illegible]

[illegible] montis [illegible] [illegible]

montes [illegible] in [illegible] [illegible]

[illegible] attractione montium qui [illegible] grandiores

[illegible] [illegible] corpore [illegible] gravitas [illegible]

[illegible] gravitati [illegible] [illegible]

[illegible] hac [illegible] quorum gravitas [illegible] est [illegible]

[illegible] velocitate gravitas [illegible] quam [illegible]

[illegible] gravitatis sive [illegible] massa [illegible]

[illegible] corpora [illegible] [illegible]

[illegible] [illegible]

[illegible] attractionem [illegible] [illegible] naturae [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] gravitatis [illegible]

[illegible] [illegible]

gravitatis corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quia [illegible] 8705 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible].

232 Corpo[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] status [illegible] motus [illegible] gravitatis [illegible] positiones [illegible] experimenti [illegible] motus [illegible] gravitatis [illegible]

233 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solari [illegible] et varios primarios et varios [illegible]

[illegible] incomprehensibile est [illegible] secundarius [illegible] solem [illegible] primarium [illegible]
[illegible] diametro [illegible].

[illegible] solutio [illegible] observatum [illegible] ab astronomis secundariorum motus considerari [illegible] [illegible] motu altero circa solem altero circa primarium [illegible] motus [illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarium [illegible] [illegible] [illegible] descripta curva altera circa solem [illegible] [illegible] [illegible] [illegible] [illegible] motus secundariorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] difficultatem [illegible] secundariorum motu primo modo [illegible] [illegible] [illegible] [illegible] [illegible] in solem [illegible] concava [illegible] solem [illegible] [illegible] [illegible] [illegible] concavitatem [illegible] primarium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] secundariorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarium [illegible] secundariorum [illegible] [illegible] [illegible] [illegible] [illegible] in solem [illegible] primarium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarium [illegible] [illegible] concavitate [illegible] [illegible] concavitatis [illegible] [illegible] solem [illegible] primarium [illegible] concavitatem [illegible] [illegible] secundarium [illegible] [illegible] primarium [illegible] [illegible] [illegible] in solem [illegible] primarium [illegible] absolute [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 1790 [illegible] [illegible] curva descripta a secundariis [illegible] [illegible] [illegible] Jovis et Saturni [illegible] [illegible] primarium [illegible]

[illegible] [illegible] secundarii [illegible] primarium [illegible] [illegible] [illegible] [illegible] [illegible] concavitatem [illegible]

[illegible] [illegible] in primarium [illegible] [illegible] [illegible] [illegible] secundarios [illegible] motus [illegible] [illegible] [illegible] primarium [illegible] [illegible] [illegible] [illegible] solem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarium [illegible] circa primarium [illegible] [illegible] [illegible] secundarios [illegible] [illegible] [illegible] [illegible] motus [illegible] primarium [illegible] secundarios [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solem [illegible] [illegible] in solem motus [illegible] primarium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarii [illegible] secundarii [illegible] solem [illegible]

[illegible] quae in nostra lunae debet [illegible] a sole [illegible] circa [illegible]
[illegible] tres [illegible] motus [illegible] prosequi possit [illegible]
[illegible] solis est una ratione [illegible] maior [illegible]
[illegible] in conjunctione [illegible] [illegible] magis [illegible]
[illegible] gravitate in ratione [illegible] in conjunctione [illegible]
[illegible] motionis [illegible] et [illegible]
[illegible] [illegible] ad [illegible]
[illegible] et [illegible] quatuor [illegible] quatuor [illegible]
[illegible] in conjunctione [illegible] in solem gravitare [illegible]
[illegible] debere [illegible] a sole [illegible] [illegible] [illegible]

[illegible] luna est in oppositione [illegible] in solem [illegible] gravitate in tellurem [illegible]
[illegible] in tellurem [illegible] magis [illegible]
[illegible] ergo debere luna [illegible] in tellurem [illegible]

[illegible] secundarii [illegible] hoc [illegible] gravitate in solem [illegible] in primarios [illegible]
[illegible] debere perturbationes [illegible] debere [illegible] perturbari [illegible]
[illegible] differentia [illegible]
[illegible]

Quod [illegible] satis magna [illegible] tamen [illegible] in primarios non [illegible]
[illegible] motus circa primarios perturbare, sed [illegible] differentia [illegible]
[illegible] in primarios [illegible] eadem fere distantia a sole [illegible] secundarios [illegible]
[illegible] utrique attrahuntur [illegible]
[illegible] primarii sive [illegible] in solem [illegible] minor [illegible]
[illegible] ad gravitatem [illegible] in primarios [illegible]
[illegible] secundariorum in primarios [illegible] in [illegible]
[illegible] plures [illegible] motus [illegible]
[illegible] secundariorum in primarios [illegible]
[illegible] motus [illegible] secundariorum [illegible] perturbari [illegible]
[illegible] gravitatem secundariorum in solem [illegible] perturbationes [illegible]
[illegible] primarios [illegible] perturbationes [illegible]

[illegible] gravitatem [illegible] in solem [illegible] motus secundariorum circa primarios [illegible]
[illegible] in solem [illegible] motus secundariorum [illegible]
[illegible] solis [illegible] in secundarios [illegible]
[illegible] in primarios [illegible] motus secundariorum circa primarios [illegible]
[illegible] primarios [illegible] solem [illegible]
[illegible] gravitate primariorum in solem [illegible] secundarii [illegible]
[illegible] non [illegible] gravitate secundariorum in solem [illegible]
[illegible] [illegible]
[illegible] in solem quod in tellurem [illegible] magis [illegible]
[illegible] attractio tamen [illegible] in conjunctione [illegible] in oppositione
[illegible] solis [illegible] differentia [illegible]
[illegible] secundariorum [illegible] ad lunam [illegible]
[illegible] in oppositione [illegible] differentia [illegible] minor [illegible]
[illegible] luna [illegible] tellurem [illegible]
[illegible] in oppositione [illegible] luna in solem gravitatem [illegible]
[illegible] a sole [illegible] circa [illegible] in oppositione [illegible]

[illegible] adias [illegible] in [illegible] ratione [illegible] quod [illegible]

— [illegible] majorem massa telluris [illegible] principio [illegible] in [illegible] ad [illegible] [illegible] majorem [illegible] quae in sole est [illegible] [illegible] quod [illegible] massa [illegible] [illegible] majorem massa telluris [illegible] [illegible] quod in oppositione gravitas lunae in tellurem a gravitate lunae [illegible] [illegible] ostendimus, [illegible] concessionem adversarii, [illegible] nihil nobis officeret

Secundo [illegible] habes [illegible] difficultates [illegible] quae opponi solent. [illegible] [illegible] aequalitate [illegible] in [illegible] oppositione [illegible] [illegible] in [illegible] in oppositione

R. [illegible] debis [illegible] et [illegible] gravitas [illegible] in sole [illegible] [illegible] actiones [illegible] composita [illegible] gravitate in solem [illegible] composita [illegible] gravitate [illegible] [illegible] gravitatem [illegible] in conjunctione [illegible] in oppositione [illegible] [illegible] circa tellurem a sole [illegible] [illegible] gravitas absoluta [illegible] ubi gravitas est [illegible] sive in conjunctione sive in oppositione [illegible] velocitate [illegible] [illegible] ratione [illegible] [illegible]

286 Secundo [illegible] in quadraturis [illegible] [illegible] ad conjunctionem [illegible] gravitas in solem [illegible] gravitas in tellurem [illegible] [illegible] contraria [illegible]

R. respondetur [illegible] diversitate [illegible] [illegible] in solem [illegible] [illegible] in prima [illegible] quadratura [illegible] [illegible] [illegible]

287 Tertio [illegible] solem [illegible] orbitam [illegible] composita [illegible] [illegible] tellurem [illegible] [illegible]

[illegible] in conjunctione [illegible] gravitate [illegible] solem [illegible] [illegible] [illegible] in conjunctione [illegible] [illegible] in conjunctione [illegible] [illegible] gravitate [illegible] solem [illegible] sole [illegible] [illegible] sole et tellurem [illegible] [illegible] tellurem [illegible]

288 Denique [illegible] [illegible] observationes [illegible] [illegible] [illegible] in solem [illegible]

[illegible] projectione omnia [illegible] observationes plerumque aut pauca [illegible] [illegible] potuerunt [illegible] tabulis lunaribus [illegible] vides ergo gravitatem lunae [illegible] [illegible] motus [illegible] maximae esse [illegible], ut [illegible] possint [illegible] observari [illegible] [illegible]

259 Opport: [illegible] planetas [illegible] mutua [illegible] in ratione [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] possunt [illegible]

[illegible] mutuam gravitatem planetarum [illegible] observationes [illegible] mutua planetarum gravitate [illegible] motus [illegible] [illegible] observationes [illegible] observationum [illegible] [illegible] in astronomia [illegible]

[illegible] [illegible] possibiles [illegible] debere, [illegible] majores [illegible] [illegible] sunt notanda quibus [illegible] [illegible] possunt

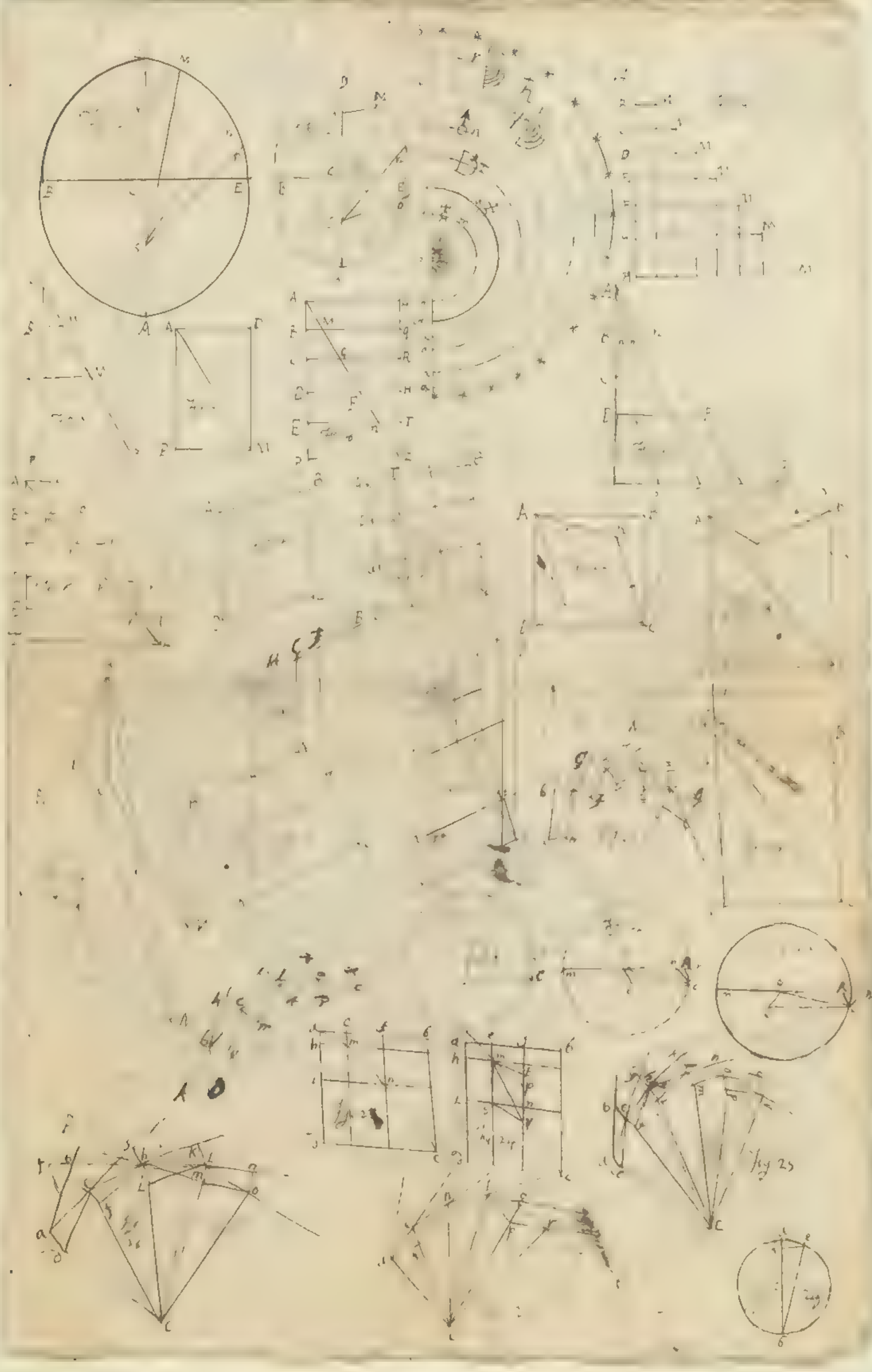
[illegible] massa solis [illegible] [illegible] in sole [illegible] magis [illegible] [illegible] gravitas [illegible] [illegible] observationum [illegible] gravitatem [illegible] [illegible] gravitati mutuae planetarum [illegible] gravitate [illegible] [illegible] gravitates mutuae Jovis et Saturni [illegible] [illegible] sunt semper in conjunctione

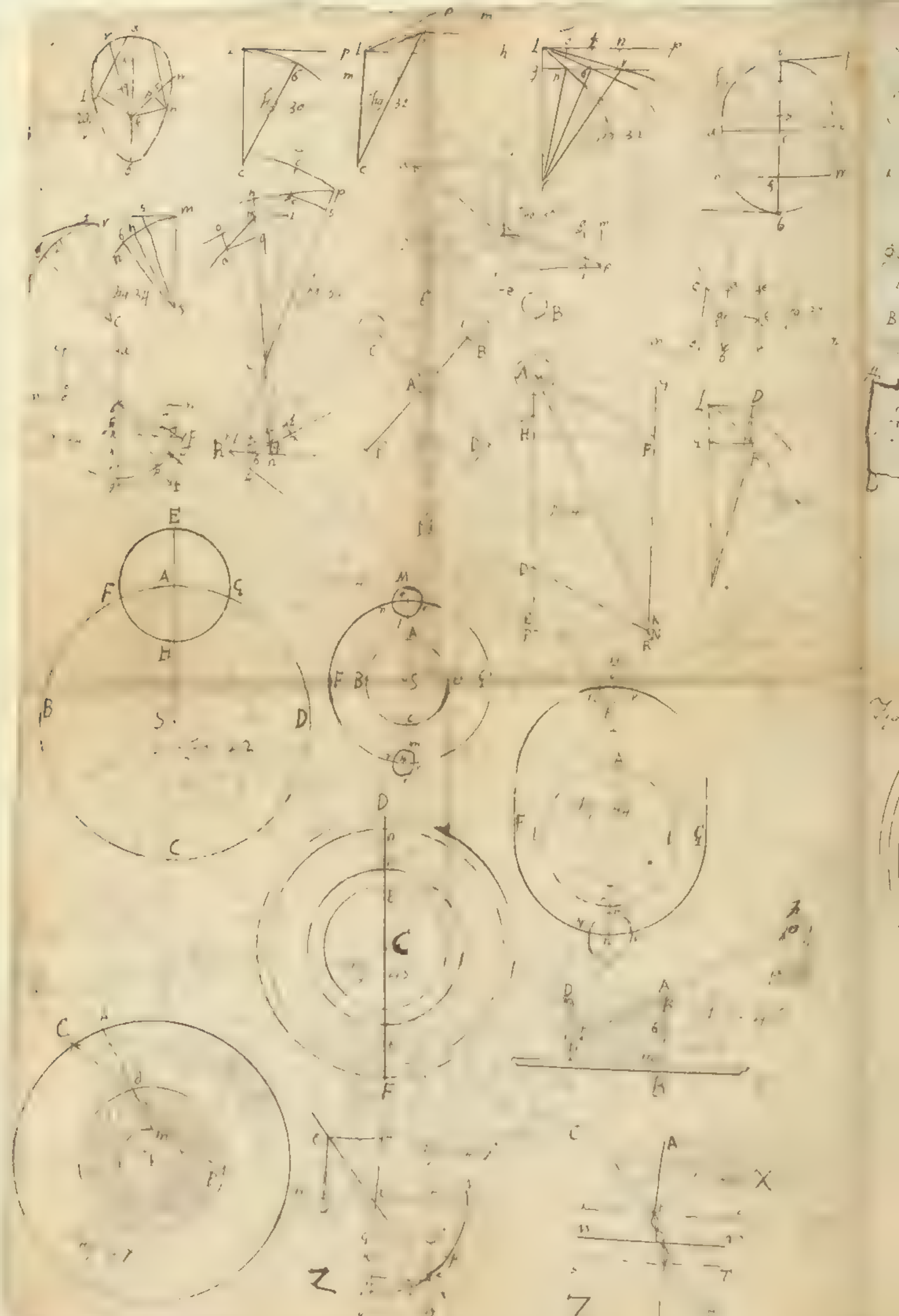
[illegible] motus circa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] gravitate [illegible] planetas alios motus [illegible] [illegible] [illegible] [illegible] in se invicem et in solem

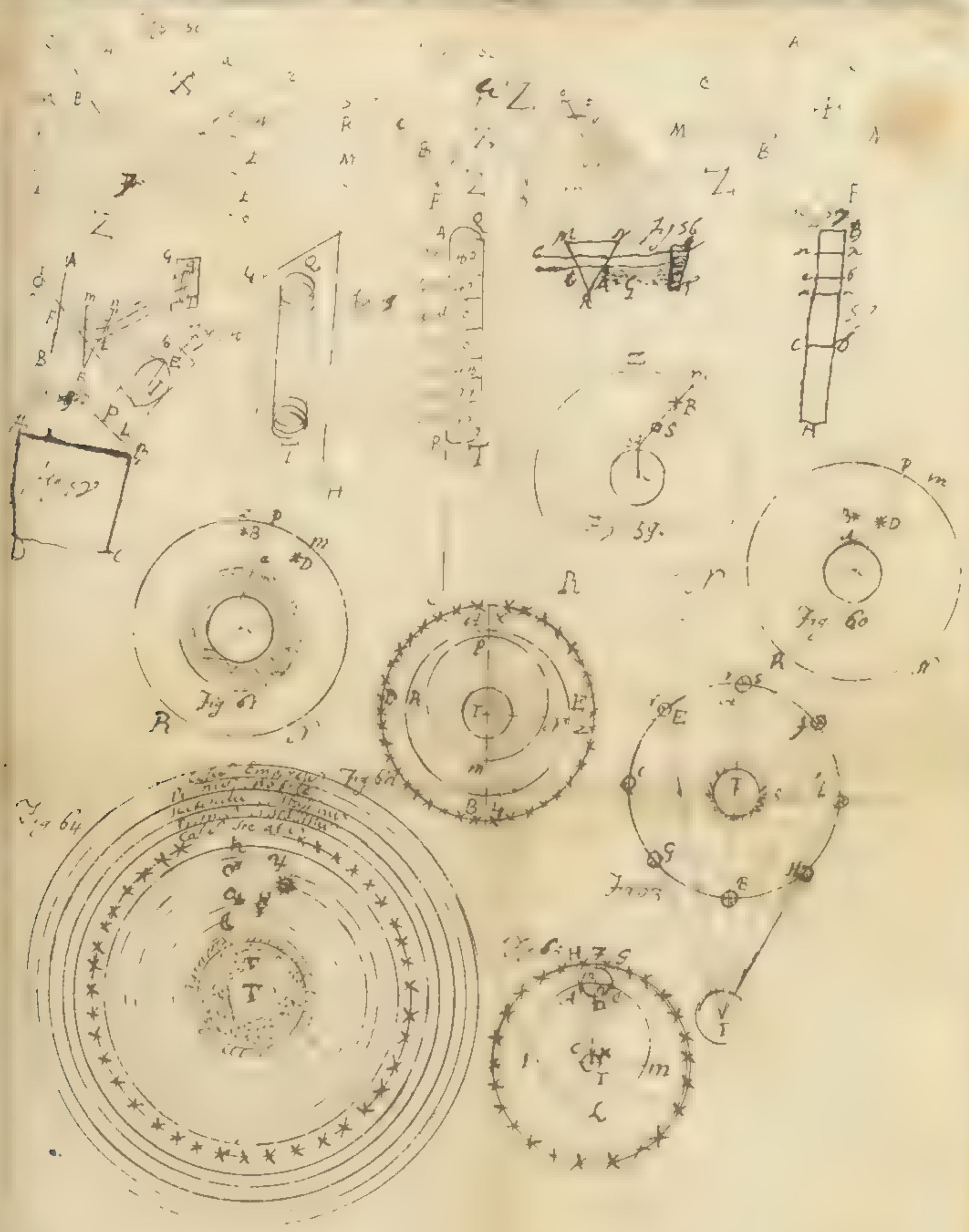
[illegible] [illegible] planetarum [illegible] [illegible] [illegible] motum [illegible] planetae [illegible] [illegible] gravitate [illegible] [illegible] observationes [illegible] [illegible] [illegible] possit [illegible]

260 Sol [illegible] [illegible] [illegible] [illegible] ad conjunctionem [illegible] [illegible] conjunctionem [illegible] [illegible] [illegible] conjunctionem [illegible] plano [illegible] [illegible] conjunctiones [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] octava [illegible] [illegible] tabulis Cassinianis [illegible] Mars ad Jovem [illegible] [illegible] [illegible] [illegible] attractio decrescat [illegible]

[illegible] principio haud difficile esset [illegible] observationes [illegible] mutuo [illegible] Martis [illegible] [illegible] a Marte [illegible] [illegible] [illegible] Martis [illegible] [illegible] [illegible] [illegible] Lanoryus [illegible] [illegible]







Sed haec [illegible] gravitatis [illegible] effectus gravitatis Martis in [illegible] esse ut sensibiles ~~[illegible]~~ [illegible] in [illegible] Martis reperiant, [illegible] te [illegible] Martis, [illegible] per [illegible] partes [illegible]
gravitatis Martis ipsius in Solem, a quanto cum Martis [illegible] discrimen inter observationes [illegible] Martis [illegible] observationum [illegible] [illegible]
[illegible] ut summa [illegible] [illegible] errores [illegible]
[illegible] supponi potest [illegible] observationibus [illegible]
tos, at dubius [illegible] esse [illegible] accuratiores [illegible] et incertitudo
[illegible] et [illegible] quae Martis per [illegible] meridianum [illegible]
[illegible] gravitati Martis [illegible] non [illegible]

Instantia 2 [illegible] planetarum [illegible] non respondet, nam [illegible] in planetis [illegible]
[illegible] inter [illegible] in aliis vero motus [illegible]
[illegible] difficultati [illegible] erit solutio si haec quae de motu absidum in astronomia [illegible]
[illegible] planetis [illegible] ex [illegible] gravitate [illegible]
[illegible] proportione [illegible]
[illegible] apparet [illegible] incrementum aut decrementum gravitatis in Solem [illegible]
[illegible] sit per [illegible]: 259 et 2.0; [illegible]
[illegible] in planetis [illegible] commutatione gravitatis in Solem provenire, [illegible]
[illegible] observationibus [illegible] posterit [illegible] primo [illegible]
[illegible] motus absidum [illegible]

[illegible] planetarum [illegible] gravitatis [illegible] in diversis planetis [illegible]
[illegible] haec [illegible]
[illegible]

[illegible] Cometa [illegible]
[illegible] motus [illegible]
Sed huic difficultati [illegible] Cartesii [illegible]
[illegible] sensibiliter [illegible] in planetas [illegible]
[illegible]
[illegible] fluidi, quae [illegible]
[illegible] planetas [illegible]
[illegible] [illegible]
[illegible] Solem [illegible] planetas, sensibiles [illegible] observationes [illegible]
[illegible] in astronomia [illegible] observationibus [illegible]
263 [illegible] planetarum motus [illegible] sensibiliter [illegible] gravitatis [illegible]
[illegible] in Solem [illegible] gravitatem [illegible]
[illegible]

Variatio [illegible] distantiae a Sole [illegible]
[illegible] quod non [illegible] aphelia [illegible]
[illegible] orbita [illegible] accedamus, [illegible]
[illegible] distantia [illegible] gravitatem [illegible]
[illegible]
[illegible] observatio [illegible]
[illegible] sensibilis, [illegible] possit [illegible]
[illegible]

Sed hac inventa [illegible] satellites ad solem [illegible] systematis corpora continuo accedere ob [illegible]
gravitatem, [illegible] attractio solis in satellites [illegible] ab attractione [illegible]
attractione [illegible] quae circa satellites moventur, [illegible]
[illegible] quicunque [illegible] diversorum [illegible] circa quae [illegible]
[illegible]
componunt [illegible] circa solem [illegible]

264 [illegible] attractionem [illegible] gravitatem [illegible]
[illegible] particulas [illegible]
[illegible]

[illegible] attractionem [illegible] atque [illegible]
[illegible] respondent [illegible] rationem [illegible] hypothesi [illegible]
solis [illegible] materiae, ac rationem [illegible] reciproce [illegible]
[illegible] attractionem [illegible] ab uno [illegible] principio [illegible]
[illegible] attractionis [illegible] hypothesi [illegible]
[illegible] hypothesi [illegible] quando [illegible]
[illegible] distantia [illegible] hypothesi [illegible]
[illegible] in ratione [illegible] distantiae [illegible]
[illegible] gratia attractionem [illegible]
[illegible] attractionem [illegible] a distantiis [illegible]
[illegible] formula [illegible]
[illegible] reciproca [illegible]
[illegible] quadratus [illegible]
[illegible] quadratus [illegible]
[illegible] divisae per [illegible] attractiones [illegible] exprimentur [illegible]
[illegible] divisa per [illegible] distantiis [illegible]
[illegible]
[illegible] gravitatis rationem [illegible] distantiae [illegible]
[illegible] formula [illegible]
[illegible] gravitatis rationem reciprocam [illegible] distantiae [illegible]
[illegible] approximatio [illegible]
[illegible] ratione [illegible] hypothesi [illegible]
[illegible] attractionis legem primitivam [illegible] formula exprimere [illegible]
[illegible] attractiones [illegible] attractionem [illegible]
[illegible]
[illegible] attractionem [illegible] attractione [illegible]
[illegible]
[illegible] a diversa modificatione [illegible] primitivae attractionis [illegible] in diversis circumstantiis
[illegible]

[illegible] attractionum [illegible] natura [illegible]
[illegible] attractiones [illegible]
[illegible] attractionem [illegible]

[illegible] et absoluta [illegible] divisibile [illegible]
[illegible]
[illegible] Sancto . Santa
[illegible] natura [illegible]

Cart: 23

[D]issertatio secunda

De sensibilibus corporum qualitatibus

1 Qualitates sensibiles sunt illae affectiones corporum, quibus [illegible] varias [illegible] impressiones in nostros sensus efficiunt, [illegible] ab nostris sensibus [illegible] sensationes denominationem [illegible] ~~[illegible]~~ [illegible]

[illegible] qualitas [illegible] calorem [illegible] ... [illegible] qualitates sensibiles [illegible] possunt, vel prout sunt in sensibus nostris vel prout sunt [illegible] qualitates primo modo spectatas [illegible] nostrorum sensuum [illegible] ... in anima excitant [illegible] ... [illegible] considerantur [illegible] ... [illegible]

Sectio Prima

De qualitatibus corporum, quae sensus visus afficiunt

2 [illegible] qualitates [illegible] lucem [illegible] colores [illegible] corporum [illegible] ... primaria [illegible] secundaria [illegible] ... [illegible]

3 Porro lucem proprie dictam [illegible] motu [illegible] ... Peripatetici [illegible] ... lucidum [illegible] calorem [illegible] ... colores [illegible] ... lucem [illegible] secundariam [illegible] ... primaria constituenda [illegible]

4 [illegible] ... [illegible] ... [illegible] sunt lucida.

5 [illegible] ... [illegible] ... colores [illegible] ... [illegible] primaria [illegible]

Quamvis autem huius primae [illegible] naturae [illegible] [illegible] hominis natura [illegible] [illegible] in huiusmodi inquisitione [illegible] [illegible] principio luminis proprietates [illegible] [illegible] luminis natura [illegible] [illegible] proprietates luminis [illegible] [illegible] de luminis propagatione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] existunt lucis colores [illegible] [illegible] [illegible]

Caput Primum

De luminis propagatione

Lumen [illegible] [illegible] in specie [illegible] [illegible] [illegible] luminis [illegible] [illegible] propositionibus complectimur.

Propositio Prima

Propagatio luminis directa est ad sensum rectilinea

Probat. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ergo lumen propagatur rectilinea [illegible] [illegible] [illegible] luminis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ergo lumen [illegible] directe propagatur ad sensum rectilinea [illegible]

Schol. Si [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Verum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ergo [illegible]

Hoc loco [illegible] [illegible] [illegible] [illegible] propagationem luminis [illegible] [illegible] [illegible] [illegible] lumen [illegible] propagari [illegible] [illegible] [illegible] [illegible] lumen [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Propositio Secunda

Propagatio luminis [illegible] successiva est sive non instantanea

12 [illegible] argumenta [illegible] [illegible] [illegible] [illegible] [illegible] observationibus [illegible] in [illegible] Jovis [illegible] [illegible] observationibus [illegible] [illegible] ut a primo exordiamur

Lumen successive [illegible] [illegible] [illegible] [illegible] viciniora quam [illegible] remotiora, licet [illegible] lumen [illegible] [illegible] successive [illegible] lumen [illegible] [illegible] [illegible] omnia [illegible] et [illegible] corpora [illegible] distantiis [illegible] [illegible] viciniora sunt quam [illegible] remotiora [illegible] [illegible] lumen [illegible] [illegible] Cassinus anno 1656 tabulas vulgavit circa satellitum [illegible] motum [illegible] [illegible] [illegible] [illegible] ab umbra [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] quod [illegible] tabulis [illegible] [illegible] Jove [illegible] ad solem, [illegible] vero si sol sit [illegible] ABC[illegible] orbita telluris [illegible] orbita Jovis [illegible] orbita satellitis [illegible] [illegible] [illegible] Jove in [illegible] loco [illegible] satellites [illegible] [illegible] et spectator [illegible] sit in conjunctione A, [illegible] sit in oppositione C, [illegible] [illegible] diametro orbis magni, [illegible] orbitae telluris [illegible] [illegible] observationes Roemeri [illegible] Jovis [illegible] [illegible] [illegible] [illegible] [illegible] a nobis remotior [illegible] lumen ad nos [illegible] [illegible] [illegible] umbra Jovis emergit [illegible] [illegible] videntur quam remotiora [illegible] [illegible] [illegible]

13 [illegible] Dominico Cassino; [illegible] [illegible] quas [illegible] [illegible] a Jove observaverit [illegible] in [illegible] satellitis ab umbra Jovis, [illegible] successive luminis propagatione [illegible] inaequalitates observari [illegible] in [illegible] satellitum [illegible] [illegible] distantiis [illegible] Jove inaequalitates quas in [illegible] satellitis [illegible] [illegible] observari [illegible] [illegible] contra Cassinum [illegible] [illegible] satellitum [illegible] inaequalitates [illegible] in satellite intimo, [illegible] in aliis [illegible] [illegible] [illegible] in transactionibus [illegible] anni [illegible] num. [illegible], [illegible] num. 36[illegible] [illegible] omnes [illegible] [illegible] observationum [illegible] [illegible] in aliis satellitibus non [illegible]

14 [illegible] Maraldo in Commentariis [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] satellitis [illegible] prout [illegible] [illegible] conjunctione aut oppositione [illegible] [illegible] contingit [illegible] Jovis terraeque [illegible] a sole [illegible] Jovis satellites [illegible] in locis A et C, [illegible] distantia Jovis et satellitis [illegible] a tellure [illegible] [illegible] [illegible] [illegible] differentia distantiae [illegible] orbitae Jovis [illegible] [illegible] [illegible] a diametro [illegible] [illegible] satellitum [illegible] successive luminis et [illegible] [illegible] conjunctione [illegible] [illegible] sole [illegible] prout [illegible] Cassino, [illegible] [illegible] [illegible] [illegible] Maraldus 1714 [illegible]

[illegible] observationes [illegible] [illegible] correctiones [illegible] a successiva luminis propagatione [illegible] [illegible] [illegible]

Sed nostris [illegible] quasdam difficultates addit [illegible] in [illegible] anno 1692 [illegible]
[illegible] inaequalitatem in motibus satellitum Jovialium [illegible] a [illegible] luminis [illegible]
[illegible] tamen difficultates [illegible] ; [illegible] observationibus [illegible]
[illegible] ex observationibus [illegible] 30 ; tabulas [illegible] satellitis Jovialis [illegible] multo [illegible]
[illegible] in ipsis satellitis emersionibus [illegible] inaequalitates, quae pendent a [illegible] Jovis a
[illegible] in oppositione, aut in conjunctione, [illegible] a [illegible]
a [illegible] in majori, vel minori distantia [illegible] a sole ; sive
ut Astronomica [illegible] pendere ob excentricitatem orbitarum [illegible]
[illegible] Maraldus [illegible] Maraldo [illegible] quod [illegible]
omnino exactas tabulas [illegible] inaequalitates [illegible] orbitarum excentricitati [illegible]
[illegible] correctiones [illegible]
[illegible] 1707 [illegible]
1690 [illegible] observationum [illegible]
[illegible] ad [illegible]
[illegible] excentricitates orbitarum [illegible] luminis [illegible]
[illegible] Cassinio [illegible] errores [illegible]
[illegible] inaequalitates [illegible] a successiva luminis [illegible]
[illegible]
[illegible] observationum [illegible]
[illegible]
[illegible] correctiones [illegible]
[illegible] errores [illegible]
[illegible] tabulas [illegible]
[illegible] correctiones [illegible]
[illegible] satellite [illegible]
[illegible] 32 [illegible]
[illegible]
[illegible]
[illegible] satellitis [illegible]
[illegible]
[illegible] observationes [illegible]
[illegible]
in satellite [illegible] observationes [illegible]

[illegible] 3. inaequalitates [illegible]
[illegible] excentricitatem [illegible]
[illegible] satellitum [illegible]
[illegible] satellitum [illegible]
[illegible]

[illegible] observationes [illegible]
[illegible]
[illegible]
[illegible]
[illegible] Sed praeterea

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] observationes [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] observationes [illegible] [illegible]

Sed [illegible] [illegible] [illegible] [illegible] observationibus quae [illegible]

[illegible] [illegible] habere [illegible] [illegible]

[illegible] observationes [illegible] [illegible]

[illegible] [illegible] [illegible] observationibus

[illegible] observationes [illegible] [illegible] observationibus [illegible]

Secundo [illegible] observationes [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

motus [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] observationibus [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

1 [illegible] [illegible] [illegible] [illegible]

2 [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

3 [illegible] [illegible] [illegible] [illegible]

4 [illegible] [illegible] [illegible] [illegible]

[illegible]

5 [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

6 [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

1 [illegible] motus [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] dicas clariores annos [illegible] [illegible] numeris [illegible]
[illegible] reddat [illegible] omnes vix [illegible] admitterentur [illegible] in [illegible]
[illegible] [illegible] non [illegible] [illegible] [illegible]
[illegible] annos [illegible] [illegible] annos ac successu [illegible]
[illegible] anno, ac [illegible] explicare. [illegible] annis, [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] apparent [illegible] observationes [illegible]
[illegible] par ratio [illegible], [illegible] a [illegible], [illegible], [illegible]
[illegible] observationes annuae [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] observari apparent [illegible]
[illegible] [illegible] annuas [illegible] [illegible]
[illegible] ratio annuae observationis [illegible]

[illegible] [illegible] annuas [illegible] aequationis [illegible] pendere, [illegible]
[illegible] Bradleius [illegible] [illegible] annis [illegible]
[illegible] [illegible] apparentes mutationes [illegible]
[illegible] stella [illegible] [illegible] [illegible] gamma Draconis
[illegible] [illegible] apparuerunt [illegible] observationibus [illegible]
[illegible] anno [illegible] observatione [illegible] [illegible]
[illegible] stella Draconis gamma [illegible] annum [illegible] [illegible]
[illegible] aequationem [illegible] annuae observationes [illegible]
[illegible] aequationem [illegible].

[illegible] [illegible] [illegible] [illegible]
[illegible] instrumentorum [illegible] refractiones [illegible]
[illegible] observationes [illegible] annis, [illegible] [illegible]
[illegible] [illegible] refractiones [illegible] observationes [illegible] annuae [illegible]
[illegible] refractiones [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] Bradleius [illegible] annis [illegible]
[illegible] [illegible] instrumentorum [illegible], [illegible]
[illegible] anni [illegible] [illegible]
[illegible] annos a quo [illegible]

[illegible] [illegible] [illegible] annis [illegible] Bradleius [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] anno, [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
annuae [illegible] [illegible]
[illegible] aequationes [illegible] [illegible]
annos [illegible] [illegible]

[illegible] ... in [illegible] ... quo [illegible]

[illegible] ... proportione [illegible]

[illegible] successive [illegible] ... quae tamen [illegible]

[illegible] ... nobis [illegible] ... calculus [illegible]

observationibus [illegible] ... in conjunctione [illegible] et oppositione [illegible]

[illegible] ... satellites [illegible]

[illegible] ... observationes [illegible]

[illegible] ... ostenderet [illegible] observationes [illegible]

[illegible] ... luminis [illegible]

[illegible] observationi [illegible]

[illegible] ... luminis propagationi

[illegible] ... lumen [illegible] ...

[illegible] ...

[illegible] ... propagatio [illegible]

[illegible] lumen [illegible] ...

[illegible] ... temporis quo [illegible] successive propagationis [illegible]

[illegible] ...

[illegible] ... satellitis [illegible]

in conjunctione [illegible] ... oppositione [illegible] ... satellite [illegible]

[illegible] ... calculus [illegible]

[illegible] in conjunctione [illegible] ... vel in oppositione [illegible]

[illegible] ...

[illegible] ... propagatione [illegible]

[illegible] ... tempore [illegible]

[illegible] ...

[illegible] ... tempus [illegible]

[illegible] ... propagatione [illegible]

[illegible] ...

[illegible] ... lumen [illegible] ...

[illegible] ...

[illegible] ... successive [illegible]

[illegible] ... lumen successive propagatur

[illegible] ... Sol [illegible]

[illegible] ...

[illegible] ... lumen [illegible] ...

[illegible] calculus [illegible] ...

[illegible] ... corpora [illegible] ...

[illegible] ... lumen [illegible] ...

[illegible] ...

[illegible] ... lumen successive non propagatur

[illegible] inaequalitates quas [illegible] a successiva luminis propagatione [illegible]

[illegible] 23 [illegible] et 24 [illegible]

[illegible] inaequalitates [illegible] solis [illegible]

[illegible] apparentiis solis [illegible]

[illegible] successiva luminis propagatione [illegible]

[illegible] successiva luminis propagatione [illegible]

[illegible] inaequalitates [illegible]

[illegible] luminis [illegible] successiva propagatione [illegible]

[illegible] luminis [illegible]

[illegible] luminis [illegible]

Si lumen propagatur uniformiter et [illegible]

[illegible]

[illegible] praedicta radiorum [illegible] luminis in [illegible]
[illegible] hominum [illegible] quae [illegible]
[illegible] lumen [illegible]

[illegible] luminis [illegible]
[illegible] lumen [illegible]
[illegible] radios [illegible]
[illegible] propagationi luminis [illegible]
[illegible]
[illegible] lumine [illegible] experimento [illegible]
[illegible] observavit [illegible] quatuor [illegible] ut [illegible]
[illegible] quatuor [illegible]
[illegible]
[illegible] hinc lumen [illegible]
[illegible] distantias [illegible]

25. [illegible]
[illegible]
[illegible]

[illegible] luminis refractione

[illegible] radii [illegible]
[illegible] a recto tramite [illegible]
[illegible] experimento in fundo vasis [illegible]
[illegible]
[illegible]
[illegible] ad refractionem radii [illegible]
[illegible] aquae [illegible] a recto tramite [illegible]
[illegible] refractionis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] refractionem [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] refractionem [illegible]
[illegible] in loco [illegible]

[illegible] refractionem [illegible]
[illegible] in loco [illegible]
[illegible] majore [illegible]

[illegible] ex refractione luminis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] per [illegible] [illegible] refractionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] lumen [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

29 [illegible] lumen [illegible] a corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] particulas [illegible] [illegible] [illegible] observationibus [illegible] observare [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporibus [illegible] [illegible] [illegible] luminis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lumen a corporibus [illegible] [illegible] [illegible] [illegible]

[illegible] lumen [illegible] attrahitur a corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] luminis [illegible]

[illegible] [illegible] [illegible] [illegible] medio X [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (B) [illegible] [illegible] [illegible] [illegible] AB [illegible] [illegible] A [illegible] B [illegible] [illegible] [illegible] media X Z [illegible] [illegible] [illegible] attrahitur [illegible] [illegible] [illegible] differentia attractionum [illegible] luminis [illegible] [illegible] [illegible] Paragr. [illegible] [illegible] Cosmologia.

Porro si radius X [illegible] [illegible] [illegible] [illegible] Z, ac lumen a medio [illegible] X [illegible] [illegible] [illegible] [illegible] [illegible] Z [illegible] [illegible] [illegible] X, [illegible] differentia attractionum [illegible] lumen [illegible] refringitur [illegible] [illegible] [illegible] [illegible] [illegible] refractionis [illegible] lumen [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] refractionis [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] radius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] refractionis [illegible]

[illegible] attractioni [illegible] luminis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] attractionis [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] attractione [illegible]

10 [illegible]

11 [illegible] attractio [illegible]

12 [illegible]

13 [illegible] attractiones [illegible]

14 [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible] cessat [illegible] corporibus [illegible]
[illegible]
[illegible]
[illegible] in corpore [illegible]
[illegible] corporis [illegible]
[illegible] corporum [illegible]
[illegible] 34
[illegible] corpora [illegible]
[illegible]
[illegible]
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[illegible] corporum [illegible]
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[illegible] 1723 [illegible]
[illegible]
[illegible]
[illegible]
[illegible] Peripateticorum

[illegible] abstractio [illegible] formae [illegible] occultae [illegible] in Physica [illegible] formas [illegible]

Si [illegible] abstractio [illegible]

[illegible] quid [illegible]

[illegible] abstractio [illegible]

Sed haec [illegible] Newtonus [illegible]

[illegible]

[illegible] ratio [illegible]

[illegible] in [illegible] mediis [illegible] in [illegible]

3. [illegible] refractionis luminis, [illegible] a diversis mediis [illegible] [illegible] resistentia [illegible] resistentia [illegible] causa est refractionis motus in corporibus [illegible] [illegible] luminis [illegible] [illegible] luminis [illegible] [illegible] quando [illegible] philosophi

[illegible] resistentia [illegible] refractione. [illegible] resistentia illa vel nulla [illegible] refractionem non confert, [illegible] a medio densiore [illegible] minor a rariore [illegible] [illegible] refrigerantur [illegible] transitu vero a [illegible] [illegible] refrigerantur [illegible] perpendiculo [illegible] [illegible] in medio resistentiam [illegible] [illegible] tamen [illegible] accidit [illegible] [illegible] nullo [illegible] [illegible]

[illegible] adversarios [illegible] ob analogiam [illegible] refractionis motus [illegible] a mediorum diversa resistentia [illegible] [illegible] accelerantur, et refrigerantur a perpendiculo [illegible] transitu a medio densiore [illegible] [illegible] a perpendiculo in transitu a medio rariore [illegible] [illegible] [illegible] resistentia [illegible] ob analogiam [illegible] refractionis luminis [illegible] refractionis [illegible]

[illegible] ad causas [illegible] motus [illegible] refractionis [illegible] resistentia [illegible] [illegible] refractiones [illegible]

[illegible] luminis [illegible] refractionis

2. [illegible] [illegible] anteriori [illegible] luminis [illegible] in anteriori [illegible] [illegible] posteriori [illegible] [illegible] luminis [illegible] posteriori [illegible] [illegible]

2. [illegible] refractionis [illegible] luminis [illegible] refractionis [illegible] [illegible] [illegible] in refractione [illegible] directo motu [illegible] refractionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] refractionis [illegible] angulo incidentiae [illegible]

3. [illegible] [illegible] refractionis [illegible] [illegible] angulo [illegible] [illegible] medii

[illegible], [illegible] interdum [illegible], [illegible] radios [illegible] [illegible]
[illegible] in [illegible], [illegible] a [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] refractionis [illegible] [illegible] [illegible] esse

[illegible], [illegible] [illegible] [illegible], [illegible] a parte [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] superficie constituere [illegible] [illegible].

[illegible] quae causa [illegible] [illegible] [illegible] [illegible]

Propositio [illegible]

Refractio luminis [illegible] fit [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] refractio [illegible] [illegible] [illegible] [illegible] in transitu [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in partes [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]. [illegible] [illegible] radiorum [illegible] [illegible] [illegible] refractionem [illegible] fit [illegible]
[illegible] superficie [illegible] [illegible] in partes [illegible] [illegible] superficie [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] superficiei medii [illegible] [illegible] [illegible] major [illegible] [illegible]
[illegible] [illegible] majorem numerum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] refractionem [illegible] superficie [illegible] [illegible], majorem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] transitu [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] fit [illegible] superficie [illegible] [illegible]

Prob. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] refractionis [illegible] superficie [illegible]
[illegible] [illegible] [illegible] [illegible] refractionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] medii [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] continue [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] refractionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] continue
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] superficie [illegible] [illegible] [illegible]
[illegible] [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] superficiei [illegible] [illegible] [illegible] [illegible]
[illegible] refractionis [illegible] [illegible] [illegible] [illegible] superficie

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] superficiei [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] superficie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]

52. Ad haec objicies [illegible]

53. [illegible]

54. [illegible]

[illegible]

55. [illegible]

[illegible]

57. [illegible] Walleri[illegible]

[illegible]

[illegible] reflexionem [illegible] posteriori superficie [illegible] solida [illegible] reflexionem [illegible] superficie [illegible] lumen [illegible] positis [illegible]

2 [illegible] reflexionem [illegible] superficie [illegible] anteriori [illegible] lumine [illegible] superficie posteriori [illegible] lumine [illegible] superficie [illegible] solidae [illegible] minor [illegible] apparet [illegible] lumine [illegible]

3 [illegible] superficie [illegible] posteriori superficie [illegible] lumen [illegible]

4 [illegible] reflexiones et transmissiones colorum [illegible]

5 [illegible] reflexionem [illegible] opposita [illegible] solidas [illegible]

[illegible] superficies [illegible]

[illegible] lumen [illegible] corpora [illegible] lumine [illegible] reflexionem [illegible]

[illegible] reflexionis [illegible] [illegible]

[illegible] abstractione [illegible] quae species [illegible] reflexionis [illegible]

Caput Quartum
De luminis abstractione

52 [illegible]

53 [illegible] quam difficile sit [illegible]

Caput Quintum
De luminis [illegible]

54 [illegible]

55 [illegible]

5 [illegible] ... speratione [illegible] quibus ... colores separatione [illegible] ... colores [illegible]

5b ... radios et colores ... [illegible] ... prismate, ... [illegible] ... diversaque colorum ... diversa refrangibilitate ... diversaque colorum donatis

9 ... diversi colores ... [illegible] ... simplices, colores vero [illegible] ... colores [illegible]

Prop. [illegible]

His positis sit propositio

Propositio

[illegible] solis radiis [illegible] variis diversa [illegible] refrangibilitate, et diverso colore donatis

[illegible] ... colores, ... ex his ... [illegible] ... in foramen ... [illegible] introducatur ... [illegible] ... in ipso plano ... [illegible] ... [illegible] ... transmissa ... prismate MNO post foramen ... [illegible] ... refractionis ... omnes ... [illegible] ... in prismate ... [illegible] ... prismatis ... refractionis ... [illegible] ... prismatis, ac ... inclinationem ... [illegible] ... omnes ... [illegible] ... imaginem ... [illegible] ... colores ... [illegible] ... [illegible] ... refractionis ... [illegible] ... prismatis ... [illegible] ... in ... [illegible] ... expressione ... [illegible] ... [illegible] ... [illegible]

[illegible] ... convenientur [illegible] ... specula [illegible]

[illegible] ... radiis [illegible]

[illegible] ... hoc [illegible]

[illegible]

[illegible] ... prismatis [illegible] ... positionem [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... radii [illegible]

[illegible]

[illegible]

[illegible] ... colores [illegible]

[illegible] ... radiis [illegible]

[illegible] ... prismatica [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... color

[illegible] ... omni radii [illegible]

[illegible]

[illegible] ... prismatica [illegible]

[illegible]

[illegible]

[illegible]

[illegible] ... imagines [illegible]

[illegible]

[illegible]

[illegible] ... similiter [illegible]

[illegible]

[illegible] ... radiis [illegible] ... refrangibilitate [illegible]

[illegible] ut radios [illegible] in aqua [illegible] ac aqua [illegible]

[illegible] refractione [illegible]

[illegible] diversa ratione [illegible]

[illegible] diversa [illegible]

[illegible]

[illegible] mixtione [illegible]

[illegible] non [illegible]

[illegible] Quodsi in transitu radiorum [illegible] sensibiliter separati apparent [illegible]

[illegible] particulae [illegible] colores [illegible]

[illegible] particulae [illegible]

[illegible] superficie [illegible] indicat [illegible]

[illegible]

[illegible] superficiem [illegible] perpendiculariter [illegible]

[illegible] radioli sensibiliter separati [illegible]

[illegible] quod [illegible] vitro [illegible]

[illegible] diversae refrangibilitatis diversique coloris radiorum in transitu radiorum per vitrum [illegible]

[illegible] colore [illegible]

[illegible] adversarii [illegible]

[illegible] experimento [illegible]

[illegible] rubros, et [illegible] experimento [illegible]

[illegible] colore [illegible]

[illegible] observavit [illegible] coloris [illegible] Desiderat [illegible]

[illegible] coloris [illegible] in primo experimento [illegible]

[illegible] dimidio [illegible] coloris [illegible]

[illegible] observare contigit [illegible]

[illegible] colorum rubro, flavo, viridi [illegible]

[illegible] indicat loca [illegible] coloris [illegible]

[illegible] alterius [illegible]

[illegible] affirmare [illegible] coloris [illegible]

non colorum [illegible] radioli diversae refrangibilitatis [illegible] diversi coloris

[illegible] radioli [illegible] refrangibilitate [illegible] [illegible]

[illegible] radii [illegible] coloris [illegible]

[illegible] radiis [illegible]

[illegible] radioli omnes [illegible]

[illegible] 3

[illegible]

[illegible] radii [illegible]

[illegible]

[illegible]

[illegible] coloribus [illegible]

[illegible] colorum [illegible]

[illegible] in Epistola ad Editorem Transactionum [illegible]

Nam [illegible] maxima aberratio [illegible] parte [illegible] obiecti [illegible] in quo colligi deberent [illegible] maxima [illegible] aberratio maxima [illegible] diametro circuli in quo colliguntur [illegible] aberratio [illegible] in quo colligi [illegible] [illegible] circuli radio, [illegible] omnes radii in centro circuli [illegible] colligi; [illegible] quod radii [illegible] sive [illegible] circuli colliguntur [illegible] omnes qui [illegible] lentis [illegible] [illegible] radiis refrangibilitatis [illegible] qui vero [illegible] sive ad margines circuli [illegible] [illegible] omnino [illegible] lentis [illegible] [illegible] maximo radio. [illegible] distinctae [illegible] obiectorum [illegible] [illegible] Porro [illegible] qui obiectum [illegible] primum proposuit [illegible] satisfaciet [illegible] in epistola [illegible] in [illegible] telescopiis [illegible]

[illegible] Ista [illegible] lentis [illegible] in [illegible] diversimode refrangibilitatis [illegible] in [illegible] obiecta [illegible] colores [illegible] refractionem ocularis lentis [illegible] in ocularis [illegible] [illegible] [illegible] comparatione [illegible] minima distantia [illegible] in qua radii [illegible] in refractione prismatica [illegible] refrangibilitate [illegible] prope prisma [illegible] refractione ocularis lentis [illegible] radii [illegible] a diversa refrangibilitate [illegible] distantias [illegible] [illegible] distantia lentis a foco sive [illegible] confusa [illegible] et colorata ad limbos [illegible] in ocularis [illegible] [illegible] [illegible]

[illegible] ocularis lentis [illegible] omnino [illegible] [illegible] Ut [illegible] si radios [illegible] telescopiis [illegible] in lente ocular [illegible] [illegible] in [illegible] ita non [illegible] argumenta

3 [illegible] prismate [illegible] [illegible] divergens, et ad magnam distantiam [illegible] [illegible] non [illegible] diversimode refrangibiles.

[illegible] in probatione [illegible] [illegible] [illegible] ad magnam distantiam ambos [illegible] [illegible] ad distantias magnas [illegible] [illegible]

Si radiis solaris [illegible] diversae refrangibilitatis et colores in ipso radio viderentur. [illegible]

[illegible] conversiones [illegible] et coloratos [illegible] et [illegible] ... Ut autem animadverti

possit [illegible] invicem [illegible] separati [illegible] ab oculo [illegible]

[illegible] spectatis primo [illegible] lumen solis [illegible]

[illegible] oculos [illegible] impressione [illegible]

[illegible] quae prout majorem [illegible] vel minorem impressiones [illegible]

in oculo [illegible] vel [illegible]. [illegible]

[illegible] ad [illegible] radii rotatis [illegible] oculo [illegible]

[illegible] objecta ad [illegible] [illegible]

[illegible]

Radiorum solarium [illegible] comparantes [illegible] indicatis [illegible]

[illegible] invicem, iidem et [illegible] differunt [illegible] proportione. 6

65 Prob: Nam primo radios qui refrangibilitate differunt, etiam differunt colore [illegible] colorato [illegible]

[illegible] minime omnium [illegible] colorem rubrum [illegible]

refrangibilitatis gradibus praediti colores alios diversos qui inter violaceum et rubrum videntur, [illegible]

Secundo radios qui colore differunt, differunt etiam refrangibilitate [illegible] coloratam [illegible]

[illegible] ita tamen [illegible] radios [illegible] violaceum

rubrum, reliqui vero [illegible] radios rubros [illegible] prisma [illegible]

[illegible] refractionis [illegible] per secundum prisma [illegible]

[illegible] magis quam rubros [illegible]

[illegible] differunt [illegible] refrangibilitate

Tertio [illegible] refrangibilitate [illegible] colore differunt, refrangibilitate differunt [illegible] proportione [illegible]

[illegible] radiorum refrangibilitate [illegible] in [illegible]

radios violaceos omnium maxime refrangibiles, et successive alios prout minorem [illegible]

[illegible] violaceos, ac ultimo omnium refrangi [illegible] rubri minime omnium [illegible]

[illegible] refrangibilitate colore differunt [illegible] refrangibilitate differunt [illegible] proportione [illegible]

[illegible] omnium maxime refrangibiles [illegible] omnium refrangibilitas rubri minime omnium [illegible]

[illegible] ut certe [illegible] debere [illegible]

[illegible] incidentiae aequali [illegible] omnium [illegible] refrangi [illegible]

[illegible] constituantur. Alios [illegible] necessario [illegible]

[illegible] majori [illegible] refractionis [illegible]

[illegible] praediti [illegible] et ad refractionem [illegible]

[illegible] debeat [illegible] omnium [illegible] refractionis [illegible]

[illegible] minime refrangibiles [illegible]

[illegible] radiorum [illegible] et solis radium [illegible]

66 [illegible] in radio [illegible] erunt radios diversi coloris [illegible] diversae refrangibilitatis [illegible]

[illegible] radii refrangibilitate per gradus diversos [illegible]

[illegible] prismatica [illegible]

[illegible] radios [illegible] animadvertentes [illegible]

[illegible] prismatis [illegible]

[illegible] confundent [illegible]

[illegible] prismatis [illegible]

[illegible] solis [illegible]

[illegible] minime refrangibilibus [illegible] colores successive violaceus [illegible]

[illegible], [illegible] flavus [illegible] [illegible] colores [illegible] [illegible] imagine, [illegible] [illegible]
[illegible] ipsius imaginis longitudinem [illegible] [illegible] partes per [illegible] [illegible] violaceo [illegible]
[illegible] [illegible] indico [illegible] caeruleo 60 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] imaginis latus AB [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible], colorum confinia determinabunt [illegible], in quibus [illegible] [illegible] [illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] majorem. [illegible] in quolibet radio [illegible]
sint radii diversae refrangibilitatis et [illegible] ad diversos colores [illegible] [illegible]
[illegible] [illegible], [illegible] [illegible] colores [illegible], [illegible] refrangibilitate [illegible]
[illegible]) ut [illegible] [illegible] maxime refrangibiles [illegible] sint violacei [illegible] [illegible].
[illegible] [illegible] [illegible] refrangibiles [illegible] radii

6 Probat radii colorum diversi differunt refrangibilitate

1 [illegible] [illegible] violaceum ac rubrum in eadem recta [illegible] [illegible] [illegible] distincta nec in eadem recta [illegible] [illegible] radii [illegible] [illegible] [illegible] [illegible] [illegible] delineare in retina [illegible]
[illegible] refrangibilitate differunt diversamque refractionem ab [illegible] [illegible]
2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
3 [illegible] [illegible] diversorum colorum [illegible] [illegible] in fundo [illegible] [illegible] [illegible] [illegible] [illegible]
ad [illegible] radii [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible]
4 [illegible] imagines [illegible] [illegible] [illegible] [illegible], et violaceus [illegible], [illegible] [illegible] imagines [illegible]
[illegible] [illegible] in eadem [illegible] recta [illegible] rubro [illegible] imaginis [illegible] [illegible] [illegible] [illegible]
[illegible] imagines [illegible], [illegible] violaceus [illegible] non [illegible] videri in eadem recta [illegible]
[illegible] [illegible] [illegible] [illegible]:
1 e, [illegible] [illegible] [illegible] violaceum et rubrum [illegible] in eadem recta [illegible] [illegible] distincte [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in eadem
recta in retina [illegible], [illegible] tamen [illegible] videri [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] violaceum [illegible] [illegible] rubro [illegible] [illegible]
[illegible], [illegible] ([illegible] [illegible] [illegible] [illegible]) [illegible] retina [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Reliquus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Newtoni [illegible] [illegible]
[illegible] [illegible] [illegible] rubro [illegible] violaceo colore [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] violaceam [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in oppositis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] radiorum [illegible] diversae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] diversae refrangibilitatis radiorum [illegible] [illegible]
[illegible] [illegible] [illegible], [illegible] imaginibus [illegible] [illegible]
6 2 [illegible] radii [illegible] colore differunt [illegible] differunt refrangibilitate
1 [illegible] [illegible] [illegible] [illegible] [illegible] radiis diversorum colorum [illegible] [illegible] [illegible] [illegible]
2 [illegible] [illegible] [illegible] [illegible] colorum [illegible] in [illegible] [illegible]
3, [illegible] [illegible] [illegible] divisio, [illegible] colorum [illegible] ex observationibus [illegible] Newtoni [illegible] [illegible] [illegible]
violaceus [illegible] in [illegible] [illegible] [illegible] debeant [illegible], [illegible] [illegible] [illegible]

Sed et oriuntur ex eo, quod videatur diversa colorum diversae refrangibilitatis in [illegible] trigonometrica [illegible] non [illegible] ut [illegible] sera ut a nobis [illegible] radiolos successive diverso colore [illegible] refrangibilitate [illegible] in [illegible] obscura in colorato spectro apparere posse [illegible] descripti [illegible] in diversa [illegible] contra [illegible] maxime [illegible] [illegible] [illegible]

4. [illegible] colorato spectro, [illegible] [illegible] quae [illegible] [illegible] colore [illegible] [illegible] [illegible] [illegible]

~~[illegible]~~

5. [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

Propositio Tertia

[illegible] refrangibilitates diversorum [illegible] [illegible] [illegible] [illegible] et immutabiles [illegible]

1. [illegible] [illegible] prismatibus [illegible] [illegible] [illegible] prismatibus [illegible] [illegible] prismatibus [illegible] similiter in radiis [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] in radiis servari [illegible] refrangibilitatem.]

[illegible] refrangibilitatis [illegible] colores [illegible] radiolorum [illegible] [illegible]

spinecam, qui sinum inter differunt [illegible]

[illegible] eadem nulla in ipso [illegible]

Ad 3 [illegible] divisionem spe[illegible]

[illegible] quaedam [illegible]

[illegible] vero radioli qui in eandem [illegible]

possent [illegible]

[illegible] radios qui [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] in [illegible]

1 in radiis, idem manet color post refractiones omnes. [illegible] experimento [illegible] ut radii trajecti per [illegible] [illegible] incidentes [illegible] accepit [illegible] in [illegible] [illegible] autem plane novum effectum, ut [illegible] non diversis colores radiis transmitterentur [illegible] seorsim [illegible] adhuc refringeret observavit esse constantem [illegible] colorum [illegible] [illegible] post [illegible] prismate [illegible] [illegible] refractiones [illegible] prismatis [illegible] [illegible] idem in radiis [illegible]

2 [illegible] manet in radiis color post reflexiones omnes [illegible] [illegible] homogeneo [illegible] [illegible] [illegible] transmitteret [illegible] colorum [illegible] [illegible] [illegible] colore [illegible] [illegible] nullo [illegible] homogenei luminis color [illegible] [illegible]

3 [illegible] manet in radiis color post reflexiones omnes [illegible] [illegible] diversi colores transmitterent [illegible] [illegible] [illegible] [illegible] colorum [illegible] [illegible] [illegible] transmisit radiolos [illegible] colore affectos [illegible] transmisit radiolos [illegible] [illegible] in transmissis radiis mutationem coloris non [illegible] [illegible] radiolos [illegible] servare expertus per corpora lucida [illegible] idem manet in radiis [illegible] diversa refrangibilitas

[illegible] in radiis [illegible] [illegible] refrangibilitas [illegible] [illegible] reflexibilitas [illegible] [illegible] [illegible] omni refrangibilitas reflexibilitas, [illegible]

3 [illegible] [illegible] colores [illegible]

1 [illegible] colores [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] [illegible]

2 [illegible] [illegible] [illegible] minor colorum [illegible] [illegible] [illegible] idem [illegible] angulo mutant colorem

[illegible] color [illegible] [illegible] [illegible] [illegible] colores

[illegible] [illegible] series [illegible] colorum [illegible] [illegible] colores [illegible] similiter refractione [illegible] mutarentur colores [illegible]

Verum adi manet [illegible] [illegible] [illegible] homogeneos [illegible] colores [illegible] [illegible] colores [illegible]

[illegible] radios [illegible] [illegible] prisma [illegible] colores [illegible] [illegible] prismate [illegible]

in unico [illegible] mento [illegible] et [illegible] omnes [illegible] imagines [illegible]
ut [illegible] est, [illegible] vitra [illegible]
[illegible] requeunt et [illegible] imagines colores [illegible]
[illegible] est major [illegible] ante retinam, [illegible] ad retinam [illegible]
[illegible] et imaginem [illegible] inversam [illegible] phænomenon hoc [illegible] colorum [illegible]
[illegible] non officit.

Ad [illegible] experimento [illegible]
[illegible] et [illegible] ut in [illegible] humore [illegible] semper [illegible]
et colores [illegible] viderent [illegible]

Ad [illegible] colora provenire, quod habent [illegible] textura [illegible]
[illegible] experimento [illegible] aquæ [illegible]
[illegible] texturam, et [illegible]
[illegible] colore [illegible] et [illegible]
[illegible] aqua [illegible]
[illegible] aqua [illegible] vitrea [illegible]
colores [illegible] vitris [illegible] vitris [illegible]
[illegible] hoc experimentum [illegible] colores [illegible]

14 Opp: 2 colores mutantur [illegible]
[illegible] quorum [illegible] [illegible] in [illegible]
[illegible] quod [illegible]
[illegible] radiis colores mutant
[illegible] lumen mutat colores [illegible]

Ad [illegible] Boronien: [illegible] 19
Ad [illegible] Bononiæ [illegible]
[illegible] phænomenon [illegible]
[illegible]
[illegible] lumen [illegible]
[illegible]
[illegible] colores [illegible]
[illegible] hoc experimentum [illegible]
Ad [illegible] lumen [illegible]
[illegible] lumen in colores [illegible]
[illegible]
Bononi [illegible]
[illegible] colores [illegible]

15 Opp: 3 colores mutantur [illegible]
[illegible] colores [illegible]
[illegible]
[illegible]

[illegible]

[illegible] quod diversi colores transmissi apparuerint [illegible]

Si Solis radiis [illegible] imago [illegible] prismatis [illegible] ut [illegible] imago appareat [illegible] coloris, et in [illegible] colores qui ad [illegible] sunt [illegible]

[illegible] colores [illegible]

[illegible] colores [illegible] imaginis

[illegible] imaginis [illegible]

[illegible]

[illegible] colores [illegible]

[illegible] diversa [illegible] refrangibilitas [illegible]

[illegible] prismatis [illegible]

[illegible]

[illegible] a mote [illegible]

[illegible]

[illegible] prismatis [illegible] imaginis [illegible] latitudinis [illegible]

[illegible] experimento [illegible] in imagine [illegible] causa [illegible] spectatoris [illegible]

[illegible] animadverte [illegible] causa [illegible] imaginis [illegible] habetur [illegible] ratio [illegible]

[illegible] sive [illegible] imaginem [illegible] omnino [illegible] qui [illegible]

[illegible] omnes [illegible] refractione [illegible] laterum [illegible] in [illegible] et [illegible] eandem esse debere [illegible] hoc [illegible] quod [illegible] experimento [illegible] diversa [illegible]

[illegible] diversa [illegible] et actio [illegible] major [illegible] minores [illegible] in particulas [illegible] omnibus [illegible]

...ri ata, et ac viridi coloris [illegible]
...s [illegible] permistio ac contritio
quod tradit [illegible] nec aequin...
[illegible] [illegible] Describunt [illegible]
...gilitatis, et coloris [illegible] reduci
...violacei coloris reducuntur plura
[illegible] [illegible] spatii in colorato [illegible]
... a violaceo occupari [illegible] indico

[illegible]

Prior [illegible] maximus et minime refrangibiles [illegible] distinctior a proportione quod longitudo imaginis [illegible]

[illegible] diversis observarent [illegible] separato [illegible]

[illegible] corrector [illegible]

[illegible] correctio non habent expressionem

[illegible]

[illegible] experimenta [illegible]

[illegible] confirmavit [illegible]

[illegible] corpori coloratis [illegible]

Propositio

De Radiis [illegible] data Propositione [illegible] colores [illegible] coloribus nunc [illegible] nunc [illegible]

[illegible]

[illegible]

[illegible]

[illegible] fractus in suos componentes [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] termine [illegible] gratia [illegible]
[illegible] colorem [illegible] prevalent [illegible] solare [illegible]
[illegible]
[illegible] colores [illegible] stellis [illegible]

[illegible] prismatis [illegible]
[illegible] [illegible]
[illegible]

Ad Colores, rubeos [illegible], [illegible] et albedinem [illegible] differunt tantum [illegible] gradu, et proprietatibus [illegible]
[illegible] jucundi, et [illegible] sive [illegible] miscentur, sed [illegible]
[illegible] in qua colores [illegible] [illegible] et [illegible]
[illegible] reflexam lucem, [illegible] corpora omnia lucem [illegible] intercipiunt [illegible]
[illegible] colores [illegible] [illegible] obscurus color apparuit [illegible]
[illegible] non omnes [illegible] apparent [illegible]

[illegible] prismatis [illegible] supra [illegible] colorum [illegible]
[illegible] imaginis [illegible] tamen [illegible] colores [illegible]
[illegible] prismatis [illegible] quandoque [illegible] imaginem [illegible]
[illegible] prismate [illegible]
[illegible] apparet [illegible] [illegible]
[illegible] aut quatuor [illegible] colores [illegible]
Verum [illegible] quibus [illegible]
[illegible]
[illegible] hemisphaerio [illegible]
[illegible] colores [illegible]
[illegible] experimenta [illegible]
[illegible] aequaliter [illegible]
Ubique [illegible] [illegible]
[illegible] efficiam [illegible]
[illegible] prismatis [illegible] cadentes [illegible]
[illegible] colorum [illegible]
[illegible]
[illegible] plurimum tamen [illegible]
[illegible] summa [illegible]
[illegible]
[illegible] apparet [illegible] imagine [illegible] a radio refracto [illegible]
[illegible] colorum [illegible]
[illegible]
[illegible] imaginis [illegible]
[illegible] colores [illegible]
[illegible] colores [illegible]
[illegible] in medio non esse [illegible]

[illegible] sicut [illegible] heterogeneis [illegible] sunt [illegible] coloratis [illegible] ex coloribus simplicibus [illegible] [illegible] color [illegible] intercipitur, [illegible] [illegible] coloratis [illegible] miscentur [illegible]

92 [illegible] colores [illegible] non miscentur tantum [illegible] actione mutua [illegible] [illegible] vires [illegible] mutuo [illegible] [illegible] in unicam [illegible]

[illegible] colorum mixtione [illegible] hinc [illegible] colores [illegible] non [illegible]

[illegible] colores cum [illegible] [illegible] [illegible] [illegible] [illegible] imaginem [illegible] [illegible] [illegible] [illegible] [illegible] coloribus [illegible] colligantur [illegible] [illegible] colorem [illegible] [illegible] impressionem [illegible] [illegible] [illegible] impressionem [illegible] sensationem [illegible] coloris [illegible] [illegible] impressionem sensationem [illegible] [illegible] colores [illegible] [illegible] compositionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

92 [illegible] color [illegible] [illegible] experimenta [illegible] [illegible] [illegible] [illegible] [illegible] historiam

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] experimentatorem [illegible]

[illegible] [illegible] experimentum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a Brizzeo [illegible] [illegible] experimenta [illegible]

[illegible] Praeterea [illegible] experimentorum [illegible] tribuenda esse [illegible] academicus [illegible] primo experimenta [illegible] experimenta [illegible] experimenta [illegible] a Newtonianis diversis [illegible] tamen [illegible] Newtonianis [illegible] Newton experimenta [illegible]

[illegible] Newton [illegible] contraria [illegible] experimenta [illegible] experimenta [illegible] experimenta [illegible] experimenta [illegible] adversariis [illegible] vera esse [illegible]

[illegible]

[illegible] experimenta [illegible]

[illegible]

2 [illegible]

3 [illegible]

Veritas [illegible] diversitate [illegible]

[illegible] ... probabilis lumen corpus esse.

[illegible]

[illegible]

Propositio [illegible]

[illegible] ... medii

[illegible]

Propositio Sexta

Lumen [illegible]

[illegible]

[illegible] ... lumen [illegible] propagatur [illegible]

Ad [illegible] [illegible] primo [illegible] [illegible] particulas [illegible] [illegible]

[illegible]

[illegible] tantum [illegible] ad [illegible] [illegible]

[illegible] similiter [illegible] [illegible]

[illegible]

[illegible] vero [illegible] admittere [illegible] in [illegible]

[illegible] Newtoni [illegible]

[illegible] quod in [illegible] secundum lineas [illegible]

[illegible] corporis [illegible] partes [illegible]

[illegible]

[illegible]

[illegible] particulas [illegible]

[illegible]

[illegible] particulas [illegible] motus [illegible] corporis [illegible]

[illegible]

Hinc p. 9... [illegible] vibrationes aetheris [illegible] differentes [illegible] quae ab [illegible] [illegible] propagationem [illegible] in directum ac lateraliter [illegible] [illegible]
[illegible] colore [illegible] numero [illegible] [illegible]
[illegible] propagatur

20. [illegible] vibrationibus aetheris [illegible] motus [illegible] communicari [illegible]
[illegible] particulae [illegible] invicem [illegible] [illegible]
[illegible] communicari

2. [illegible] quae communicatur [illegible] resistentiae [illegible] esse minimam [illegible]
[illegible] resistentia [illegible] [illegible]
[illegible] motus [illegible] laterali [illegible] communicabunt

3 [illegible] motus celerrimus [illegible] propagatur [illegible]
[illegible]

4 [illegible] minimus [illegible] celerrime [illegible]
motu aetheris [illegible]

[illegible] particulis aetheris cum [illegible] non [illegible] ad latera [illegible]
[illegible] in spatio [illegible] quiescunt. [illegible]
[illegible] propagationem motus [illegible] in [illegible] motus [illegible] in [illegible]
[illegible] motus [illegible] communicationem [illegible]

et solido,

[illegible] motus [illegible] per [illegible] in [illegible] et [illegible] propagatur in circulum [illegible] non probat id in fluido [illegible] [illegible]

[illegible] maxima [illegible] inter [illegible] sonus propagatur [illegible] vibrationibus [illegible] potent [illegible]

[illegible] maxime in propagatione [illegible] contrahuntur [illegible] propagatur [illegible] sonus [illegible] vibratione [illegible] possunt [illegible] vibrationes [illegible] propagatio

[illegible] Non [illegible] motu [illegible] quae vibratorio, et undulatorio [illegible] sufficit [illegible] luminis propagationem explicare [illegible]

[illegible] motu [illegible] aeris a vibratorio ac undulatorio diverso [illegible] motus [illegible] propositionis [illegible] motus [illegible] in fluido [illegible] partes [illegible] in [illegible] ad latera [illegible] propagatur

[illegible] vibratorio, et undulatorio [illegible] propagationem [illegible]

[illegible] Commotionis [illegible] partes [illegible] undique propagatur [illegible] propagationem [illegible] diagonales [illegible] describunt

[illegible] Philosophi [illegible] phaenomena explicanda [illegible]
Porro commotionis [illegible] [illegible] sola sufficit [illegible] motus [illegible] propagationem [illegible]

[illegible] rectilinea [illegible] propagatur

[illegible] motu [illegible] aeris [illegible] longitudine [illegible]

[illegible] propositio [illegible] tenuis sotilis [illegible]

[illegible] explicari posset [illegible]

lumen consistit in effluvijs tenuissimis e lucido corpore emissis [illegible]

Et [illegible] hoc [illegible] [illegible] phaena [illegible]

[illegible] quaeque [illegible] satis [illegible]

[illegible]

non [illegible] effluvijs a lucido corpore emissis [illegible] omnes [illegible]

[illegible] lumen [illegible] corpora [illegible]

[illegible] lumen ergo [illegible] consistere [illegible]

[illegible]

[illegible]

effluvia emittenda itaque lumen efficiant ostendemus. sed deinde in corporibus quae lucent ingeniti … [illegible] fermentatio ac motus partium … [illegible] fermentationis ac vibratorii motus effectus … [illegible] ad effluviorum emissionem … [illegible] … quod … [illegible] … et minuti … [illegible]

… [illegible] effluvia … [illegible] emittere et minuere … [illegible] … effluvia … [illegible] … ab intestinori fermentatione ac motu vibratorio … [illegible] non … [illegible] corpora … effluvia … emittere … [illegible]

… [illegible] … esse … [illegible] adversarii … [illegible] … quantitate motus quem producunt in lumine … motus quantitas … [illegible] … ostendimus … [illegible] … in effluviorum motu emittendo … [illegible] … et vibratio … [illegible] … in partium … potest … [illegible] … ad lucem producendam … in corporibus lucidis etc.

ico Sed sunt corpora plura lucem emittentia, in quibus nulla conspicitur fermentatio. Ergo a fermentatione non fit

2 licet a fermentatione effluvia a sole … [illegible] deberent tamen a maxime

… [illegible] … in sole … [illegible] … ergo ipsa in corporibus lucidis … [illegible]

Venio ad primum … [illegible] corpora lucida … [illegible] nulla apparet fermentatio … [illegible]

… [illegible] … effluviorum … [illegible] … corporibus … [illegible] … de corporibus … valent quae lumen emittunt … [illegible] … quae lumen emittunt ab aliis … [illegible] … [illegible] … radii … [illegible] … atque … varios … reflectiones … [illegible]

Ex 2 … effluvia a sole emissa … attractione … [illegible] … Boschovichio quod effluvia ab attractione solis … [illegible] … effluvia a sole … [illegible] … majorem esse … vi solaris attractionis … a solari attractione effluviorum … [illegible] … et talis … [illegible] … et corpora alia … effluvia attrahere … [illegible] … motus … [illegible] … effluviorum … [illegible]

Ceterum … [illegible] … effluvia … [illegible] … corporibus … quae effluvia ad nostra spatia diffundere … [illegible] … soli ac aliis corporibus lucidis … [illegible]

iii Opp. 2 si … lumen producerent continua effluviorum emissione

corpora lucida … [illegible] … deberent … hic materia … [illegible] … materia solaris et … [illegible] … et simul … effluvia … [illegible]

2 lumen … [illegible] … corporis … [illegible] … particulae luminis … [illegible]

… [illegible] … ad … [illegible] … majorem … [illegible] … Muschenbroek … [illegible]

3 … [illegible] … corpore lucido … [illegible] … corporis lucidi … [illegible]

Cont. … [illegible] … corpori lucido … [illegible] … lucidi corporis … [illegible]

4 interdum luminis, vivaremus sole in meridie apparente. effluvia vero emissa deberent convergi versus mediam solis et ad distantiam telluris coni umbrosi interjacerent ipsa tellure latiores. [illegible]
5 [illegible] corpus quod motum [illegible] communicat debeat continuo [illegible] aliquod sui motus amittere [illegible] sententia nostra sol deberet immensi effluvioris emissionem in sententia adversariorum deberet amittere motum quem [illegible] communicat. [illegible] in ipsa sententia adversariorum deberet [illegible] [illegible] in sole deficere [illegible] lumen [illegible] posset producere [illegible]
[illegible] opinionem qui censent [illegible] in sole ob continuam effluviorum emissionem [illegible] effluviis [illegible] corpora a cometis et [illegible] quae [illegible] [illegible] solaribus effluviis, quae in solem [illegible], [illegible] solis massam imparem esse continuum [illegible] et [illegible] [illegible] debet esse, si [illegible] effluviorum emissione sol [illegible] non conservatur. [illegible] P. Boscovich: [illegible] demonstravit [illegible] luminis adducit quod sol licet [illegible] novae [illegible] repleret spatium omne a telluris orbita undique [illegible] tamen [illegible] sferico digito aequa [illegible] materia sit [illegible] [illegible] plurium [illegible] quod [illegible] minuta, quae [illegible] totum telluris [illegible] [illegible] [illegible] solis [illegible] [illegible] [illegible] digiti longitudinem [illegible] [illegible] 22 et [illegible] [illegible] ut solaris materiae densitas major sit densitate aquae, ut sol terrestrem orbitam continuo illuminans, [illegible] materiae digito [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 20. Videant adversarii quod [illegible] debeat decrementum sol pati ex continua emissione [illegible] 50, aut 60 [illegible] responsio ad Euleri [illegible] quippe materia luminis [illegible] telluris [illegible] materia solari [illegible] quinquagies [illegible] [illegible] [illegible] [illegible] 75. [illegible] [illegible] sensibile decrementum ex continua emissione luminis sol [illegible] [illegible] adhuc saeculorum millibus [illegible]
Contra [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sol lumen communicet, [illegible] [illegible] habere: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solis [illegible] immensum esse, qui putabant [illegible] [illegible] esse [illegible] solis massae quae [illegible] [illegible] [illegible] major massa telluris [illegible] [illegible] [illegible] non [illegible]
[illegible] [illegible] solis massa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solis massae [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in sole [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] luminis [illegible] corpora [illegible] [illegible] [illegible] effluvia [illegible] [illegible] emittere [illegible] [illegible] [illegible] non [illegible]:
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] oculos nostros [illegible] [illegible] [illegible] [illegible] oculos [illegible] [illegible] [illegible] [illegible]

quantitat sive reductio [illegible] in [illegible] ex [illegible] lucido effluvia [illegible] maxima [illegible] tamen a [illegible] [illegible] effluvia lucida ad oculum perveniunt [illegible] tamen [illegible]

Hinc [illegible] Mysterii [illegible] quantitate particula luminis [illegible] septima quadragesima parte [illegible]

[illegible] effluviis [illegible] tamen non [illegible]

Ad 3. [illegible] qui [illegible] lucido corpore [illegible] motum [illegible] lucidi corporis [illegible] lucido corpore [illegible] effluvia [illegible] corporibus lucidis [illegible] sensationem [illegible]

R. [illegible] dico [illegible] effluvia [illegible] multiplices refractiones reflectiones [illegible] lumen [illegible] numero [illegible] refractiones [illegible] sensationi luminis [illegible] lucido effluvia multiplices in corpo[illegible] refractiones [illegible] corpore lucido [illegible] lumen tamen sensibiliter non [illegible]

Dein Dico adhuc [illegible] corporis lucidi [illegible] effluvia [illegible] efficiendo [illegible] effluvia [illegible] lucidi [illegible] effluvia [illegible] effluviis [illegible] corpora lucida [illegible] effluvia [illegible] effluvia [illegible] lucidi corporis [illegible] sensibiliter [illegible]

Si [illegible] corpore lucido [illegible] lucidi [illegible] lumen [illegible] lucido [illegible] lucidi [illegible] refractiones [illegible]

Nec [illegible] lucida effluvia [illegible] luminis efficiendo [illegible] tempore sensibili [illegible] lucidi corporis [illegible] lucido [illegible] efficiendo luminis [illegible] tempore [illegible] spatia [illegible] refractiones [illegible] contra

[illegible] multiplices refractiones, et effluviis [illegible]

Nec obstat denique partes odoris ac coloris non particulas odoriferas, quod odoriferae sint habent motum
a [illegible] proprio [illegible] motu, quod ad nostra naris [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] motu habent, quod parere colorem producunt [illegible] [illegible] [illegible] sublato corpore
odoro vel calido [illegible] praesentiam [illegible] [illegible] [illegible]
[illegible] odor et color persistunt sublato corpore odoro, ut [illegible] [illegible] corporum praesentiam [illegible]
[illegible] [illegible] contingit. Quia ut probavimus, nec sublato corpore
lucido persistunt effluvia [illegible] eo motu, quo lumen efficere possunt. Nec ad praesentiam
diuturniorem lucidi corporis effluvia illa [illegible], quae [illegible] lumini efficiendo apta
Ad 4 [illegible] admodum radiorum [illegible] quia a solis partibus ad [illegible]
nostra [illegible] protenduntur ut [illegible] [illegible] [illegible] [illegible] admodum atmosphaera, quia i
[illegible] ipsius solis partes effluvia undique effunderet. [illegible] radiorum a sole, [illegible] [illegible] [illegible]
[illegible] [illegible] ~~[illegible]~~ in [illegible] modum effluvia, [illegible]
fluviis in modum atmosphaerae emissis illuminantur, praeterea et [illegible] [illegible] [illegible] in [illegible]
atmosphaeram [illegible] [illegible] [illegible] [illegible] sensibilia obscura manent [illegible] iis
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] falso asseri ab adversariis, [illegible] [illegible]
ne [illegible] radiorum a sole ad nos provenientium [illegible] [illegible] [illegible] solis [illegible]
[illegible] [illegible] ad nos pervenire et [illegible] [illegible] [illegible] [illegible] materia
iii Opp. 3 [illegible] sententia quod statuerunt [illegible] [illegible] [illegible]
i qui [illegible] persuadeat, quod [illegible] [illegible] [illegible] effluvia [illegible], quod ad [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ab omnibus [illegible] [illegible]
2 [illegible] in omnibus radiis [illegible] [illegible] colorum radiorum [illegible] [illegible] [illegible] radiolos [illegible]
[illegible] [illegible] a sole [illegible]
[illegible] [illegible] dico id non esse [illegible] [illegible] ad [illegible] spatium illuminandum sufficere [illegible]
materiae quantitatem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] quae [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in adversariorum [illegible] [illegible] videtur, [illegible]
apparet, quomodo a percussione lapidis [illegible] oriatur [illegible] quantus requiritur [illegible]
[illegible] per spatium vastum diffusum
Ad 2 [illegible] radiolorum [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] particularum [illegible] [illegible] [illegible]
[illegible] habent particularum [illegible] et vibrationum dispositionem quae [illegible] [illegible] [illegible] [illegible]
vero credibilius non est, quod [illegible] sol diversorum colorum radiolos [illegible], [illegible] [illegible] i
quemadmodum commixtionem radiolorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
sanguinis globulos [illegible] [illegible], nonne in quolibet corpore [illegible]
[illegible] [illegible] [illegible] [illegible] componentes [illegible] [illegible] [illegible] Chimici [illegible] [illegible]
[illegible] corpora in quibus [illegible] [illegible] sunt diversorum colorum [illegible] [illegible] commixtos [illegible]
[illegible] [illegible]
iii 3 Opp. [illegible] lumen in effluviis [illegible], nullum habetur nullo [illegible] lucido, atqui habetur [illegible]
[illegible] [illegible]
i [illegible] perfecte obscurum [illegible] nullum [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]
[illegible] [illegible] comprimas [illegible] [illegible] [illegible] [illegible]
[illegible] in [illegible] non video quo pacto [illegible] luminis sine lucido [illegible] [illegible] [illegible]
[illegible] corpus [illegible] [illegible] [illegible] motum [illegible] pressionem [illegible] producat. [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] obscuritatem reddere ut [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]: [illegible] corpora [illegible] [illegible]
[illegible], ac [illegible] [illegible] [illegible] esse [illegible] et diligentius experimentis [illegible]

coloribus secundum suam autem nostram observationem explicavimus: ideo enim obscuratem [illegible] [illegible] lumen percipimus quia ex iridibus [illegible] [illegible] [illegible] lumen [illegible] [illegible] aliquod, quia nulla [illegible] [illegible] luminis [illegible] intervallis [illegible] aptus reddetur [illegible] luminis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] . . .

[illegible] [illegible] [illegible] et ab effluviis item a corporibus [illegible] potest in oculo [illegible] [illegible] luminis [illegible], [illegible] [illegible] [illegible] in obscuro [illegible] [illegible] oculi partes

[illegible] non obstat quod [illegible] videatur a nullo corpore lucido [illegible]

De corporum affectionibus, quae a lumine pendent

[illegible] quae corporum affectiones a lumine pendent

Propositio prima.

Pelluciditas corporum non oritur tantum a recta pororum dispositione, sed etiam ab uniformitate materiae [illegible] [illegible] non [illegible]

[illegible] Prob: [illegible] [illegible] [illegible] [illegible] [illegible] habeant non uniformem [illegible] materiae [illegible] [illegible] [illegible] rectos [illegible] poros [illegible] ad latera [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dividi, et in radiolos colo[ra]tos separari et [illegible] [illegible] [illegible] libere per poros corporum rectos [illegible] transire, et ad pelluciditatem [illegible] [illegible] ad pelluciditatem [illegible] pororum rectitudo [illegible] uniformis materiae densitas [illegible] necessaria, et [illegible] lumen [illegible] poros [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] per corpora ipsa transeat

2 Cor: [illegible] pelluciditatem augeri potest, si corpora [illegible] [illegible], et [illegible] videantur [illegible] in [illegible] [illegible] [illegible] in [illegible] [illegible] materia

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] poros ipsos [illegible] [illegible] [illegible] in [illegible] uniformitatem materiae [illegible] [illegible] [illegible] [illegible] [illegible] ad densitatem [illegible] accedat, quod [illegible] agens. similiter vitrum et [illegible] [illegible] [illegible] [illegible] [illegible] partes [illegible] aer [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] poros in aqua, et vitro [illegible] [illegible] materiae uniformitatem [illegible] [illegible] [illegible] [illegible] [illegible] materiae densitas ubique uniformis ad pelluciditatem requiritur.

ii 6 [illegible] [illegible] pororum [illegible] [illegible], quod ad pelluciditatem admittimus [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] poros [illegible] [illegible], [illegible] [illegible] dispositos

Verum non difficile [illegible] poros in diaphanis corporibus omnibus recto ordine dispositos reperiri [illegible] [illegible] [illegible] [illegible] quae corpora [illegible] [illegible] in corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quantitatem [illegible] [illegible] [illegible] materiae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lumini [illegible] permittant, et [illegible] arbores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] spectatori se offerant, [illegible] [illegible] [illegible] in pelluciditate corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Nec obstat exemplum [illegible] qui in [illegible] porentur [illegible] poros fere nullos recta [illegible] dispositos [illegible], nam in fluidis [illegible] pororum [illegible]

quos [illegible] particulas, sed [illegible] qui in particulis [illegible] solidas [illegible], et [illegible] quos particulae [illegible], [illegible] quibus [illegible] pori nulli supponuntur

Pariter nil obstat pelluciditas fluidorum ut in mari [illegible] pororum [illegible] in fluido scatent facile apparet motis [illegible] pororum particulis posse poros [illegible] occurrant, et nunquam [illegible] series [illegible]. Praeterea ostendi [illegible] hoc loco debet maximam [illegible]; nam [illegible] quilibet [illegible] permittendum [illegible] fluida [illegible]

[illegible] magis [illegible] faciat, quod [illegible] per corpora pellucida [illegible] [illegible] poros esse [illegible], nec [illegible] potest, nam [illegible] in partes [illegible] solidas offendit et reflectitur aut intercipitur, [illegible] rectam positionem [illegible] in fluidis [illegible], quod in quietis [illegible] [illegible] pellucidis corporibus [illegible] [illegible] per obicem [illegible], [illegible]

[illegible]: [illegible].

[illegible] pororum [illegible], et [illegible] uniformitate materiae radii perpendiculariter incidentes sine ulla perturbatione transirent [illegible] corpora pellucida [illegible] [illegible] radii perpendiculariter transeuntes [illegible] diversae densitatis [illegible], [illegible] aut reflexionem [illegible]; [illegible] radii perpendiculariter [illegible], [illegible] [illegible] [illegible] radii [illegible] ad [illegible] pori [illegible], quod [illegible] [illegible] ad [illegible] solidarum [illegible] diversis [illegible] sollicitari deberent, ut [illegible] in partes solidas

a quibus reflectuntur aut intercipiuntur [illegible] uniformi materiae quantitate, nec [illegible] radii per poros [illegible] dispositos [illegible]

[illegible] [illegible] pelluciditas ab uniformi materiae densitate pendere omnia corpora [illegible], [illegible] pori [illegible] sint [illegible] quae corpora [illegible] uniformitatem in materiae densitate tollere

[illegible] si pelluciditas [illegible] uniformi [illegible], [illegible] in corporibus [illegible] uniformis materiae densitas [illegible] pelluciditate [illegible] ab uniformitate materiae simul, et [illegible] pororum radiis

[illegible] adversarii [illegible] poros [illegible], ut materiae densitatis uniformitatem [illegible] pori [illegible] sint [illegible] pororum [illegible] materiae uniformi [illegible] [illegible] nostro [illegible] [illegible] [illegible] [illegible] ad pororum [illegible] [illegible] [illegible] pelluciditas [illegible]

[illegible] [illegible] telescopiorum [illegible] pellucidi [illegible] insensibili distant intervallo [illegible] [illegible] [illegible] materiam [illegible] tollere [illegible] uniformitatem tollere [illegible] pororum [illegible] in corporibus [illegible]

Verum difficultati obstat solutio, quod ubi intervallo aliquo separantur

transmissio aut interceptio luminis non pendet a solo intervalli magnitudine, sed etiam ab aliis

.... sed positionibus quibusdam

novo repetu ... quidem constat sive ex lucis reflexionibus sive ex

observationibus ... in ipsis diversis vitri corporibus, quae causas inde

curant ... videntur pro variis radiorum incidentiis et positionibus

... nunc opaca essent, ... nunc pellucida, ... nunc opaca.

(ratio cur pellucidus fit vitro ... ...

Fateor insuper tantum in spatii magnitudine, ubi inaequalitates coronant in corporum partibus

ibi in ac medio magis intervallum illud secundum substantiam vitris in vitreis corporibus

... ac lucis transmissionem impedire ... corporis

corpore dividere ... ... in ... partibus ... ...

... ... in corporis aliis causis ... ... transmissionem luminis

additur ... ... ut ... partes vitreae ... pellucidus ... ...

quod aliquando partes vitreae ... intervallo ... pellucida appareant

120 Vitrum porro ... ... quod partes vitri rimosae pellucidae ... appareant

... intervallum quo partes invicem distant, sed ... ... uniformitatem

... ac pellucidatem tollere debeat ... non ... inaequalitates pororum ac inter

vallum duabus vitris ... ... : sed a causis aliis luminis

transmissionem ... ... , ut ... ... aliqua per partes rimosas ... ... pellu

cida videntur.

121 Responsio 2 Si pororum inaequalitas uniformitatem materiae ac pellucidatem tollerent fluida

nulla ... pellucida ... , quia fluidis invicem communicant alii in partibus fluidorum

... aliis ... ... aliis

3ª ... difficultas ... ... in ... 5. ...

ibique ... ... divisibilitatem positam ... ... quodvis ... ... data

... materia quantitatem ... ... ut nullus in eo ... ... qui ... ...

... , unde ... illud ... in fluidis ... ... in partibus fluidi

... ... sed aliud acce

... quod forte in fluidis ... ... transmissionem luminis, ...

... inaequalitates pororum ... uniformitatis effectum ... ... pororum ...

122 Responsio 3 ... ... pellucidatem ... pellucidum ... ... , ...

... ... uniformem ... habet ... ... inaequalitatem ... quod ... ...

... ... in corpore parte ... ...

Verum licet pellucidatis ... ... uniformitas materiae ... ... pellucidissimus, ...

... uniformem ... non habet densitatem ... , ...

... ...

... ...

... ...

... ...

... successive ... per ... ...

[illegible] refractionem [illegible], [illegible] et dispersionem [illegible] [illegible] [illegible] continuo [illegible] lumen vel [illegible] in aliud [illegible] continuo [illegible] per ad perpendicularem [illegible] [illegible] [illegible] [illegible] continuo [illegible] a materia uniformitate [illegible], [illegible] [illegible]

[illegible] [illegible], quod in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] hoc [illegible] [illegible] in [illegible] aeris [illegible] minima sit [illegible] [illegible] poros [illegible] haberi [illegible] omnino minimos [illegible] [illegible]

i23 [illegible] lumen a sole [illegible] ad nos [illegible] [illegible] [illegible] numero inaequalis [illegible] a sole [illegible] [illegible] quia [illegible] [illegible] [illegible], [illegible] atmosphaeram [illegible] [illegible] continuo in [illegible] a sole decrescit; [illegible] a solari atmosphaera in [illegible] [illegible] [illegible] [illegible] atmosphaeram [illegible], [illegible] nos [illegible] [illegible]

Sed in primis, quod lumen a sole [illegible] [illegible] attractione non retorquentur [illegible] [illegible], quod lumen [illegible] paulo a sole [illegible] [illegible] atmosphaeram solis [illegible] [illegible] [illegible] a sole remotiora [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] a sole lumen [illegible] [illegible] solaris attractio [illegible], et lumen [illegible] [illegible] in sole, [illegible] sive in transitu, [illegible] atmosphaeram, sive in transitu a solari [illegible] [illegible] [illegible] [illegible], et [illegible] in [illegible] nostram [illegible] [illegible] lumen [illegible] [illegible] ad [illegible] est [illegible] omne [illegible] [illegible] et [illegible] in [illegible] [illegible] tamen [illegible] [illegible] [illegible] [illegible] [illegible] tamen [illegible] [illegible] [illegible] [illegible] [illegible] a sole [illegible] ad nos [illegible] [illegible] [illegible] [illegible] non omnino [illegible] i2[illegible]

i2[illegible] [illegible] mutata magnitudine corporis [illegible] mutatur [illegible] ergo [illegible] non [illegible] [illegible] uniformitate, quae mutata magnitudine corporis [illegible] [illegible]

[illegible] [illegible] mutata magnitudine [illegible] corporis, [illegible], [illegible] concedo [illegible] [illegible] corpora [illegible] omnino [illegible], [illegible] plures transmittunt [illegible] [illegible] reflectunt, [illegible] inde mutatio [illegible] [illegible] mutatione magnitudinis [illegible] [illegible] vitri [illegible] radio [illegible], [illegible] [illegible] reflectuntur, [illegible] transmittuntur [illegible], [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] transmittuntur [illegible] [illegible] [illegible] [illegible] magnitudine corporis [illegible] [illegible], qui transmittuntur [illegible]

[illegible] mutata [illegible] corporis magnitudine mutetur [illegible]. [illegible] tamen [illegible] uniformitate [illegible] i2[illegible]

i25. [illegible] [illegible] contrario [illegible] [illegible] [illegible] [illegible] [illegible] corporis, sed [illegible] a [illegible] uniformitatis materiae [illegible] corpora [illegible] [illegible] poros [illegible] [illegible] [illegible], modo uniformiter [illegible] [illegible]

[illegible] Propositio. 2

Colores naturales corporum [illegible], [illegible] a [illegible] [illegible], [illegible] [illegible]; [illegible] corpora [illegible] colorem [illegible] [illegible] quos reflectunt [illegible] i2[illegible]

i25 [illegible]. [illegible] corpora [illegible] [illegible] refractione mutare radiorum colorem [illegible] [illegible] [illegible] colores [illegible] quod quid radios reflectant [illegible] transmittant, quae [illegible] [illegible] [illegible] colorum [illegible], [illegible] [illegible] colorem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora naturalia [illegible] [illegible] [illegible] [illegible] corpora [illegible]

ut eorum colorem exciderat respondentem radiolis qui in ipsa incipiebant et restituerentur; nam [illegible] ubi [illegible] refractorum [illegible] ac alio [illegible] itaut [illegible] bene conversa et sola [illegible] similis: in eo corpora diversorum colorum collocavit Aureum, et [illegible] et similes. et observavit corpora omnia naturalem colorem exhibere; sed ubi diversos radiolos coloratos seorsim ad [illegible] interciperet colores corporum mutare vidit, ac [illegible] rubei intercepta [illegible] non rubro apparuit, sed colore illi, qui ex [illegible] radiolorum mixtione [illegible]. Apparebat autem [illegible] rubro, ubi virides erant, et caerulei radioli [illegible]. [illegible] vero si certis [illegible] interciperentur albedinem argenti imitabatur, et nudis [illegible] corpora nata [illegible] exciderunt colorem; [illegible] radiolorum genera, quos reflectebant, [illegible] color

Praeterea observavit [illegible] corporum albedinem inde provenire, quod radiolos omnes apta proportione simul mixtos et albedini [illegible] aptos copiose reflecterent: nam [illegible] in foco lentis posuit, quae radiolos prismate refractos colligebat et ipsam [illegible] vidit, [illegible] omnes per [illegible] [illegible], diversis vero coloribus [illegible] prout diversos radiolos seorsim intercipiebat post prisma; [illegible] corpora naturalia [illegible] colorem semper exhibere qui respondet colori radiolorum, quos reflectunt, [illegible] colores naturalium corporum opacorum [illegible]

[illegible] vero patet de coloribus corporum pellucidorum relate ad radios transmissos, [illegible] [illegible] experimentis comperta est eadem in coloribus pellucidorum corporum [illegible] relate ad radios transmissos quae [illegible] monstravimus de coloribus corporum opacorum relate ad radios reflexos [illegible] radiorum [illegible] [illegible]

127 [illegible] corpora [illegible] sint, vel transmittendis si sint pellucida, nam in omni homogeneo lumine [illegible] [illegible] colorem exhibent: [illegible] corpora omnia [illegible] colorem illum exhibere, qui respondet mixtioni radiolorum, [illegible] albo.

[illegible] [illegible] corpora omnia [illegible] aequali [illegible], et eadem [illegible] commissa, [illegible] [illegible] observavit corpora omnia in lumine omni homogeneo posita [illegible] [illegible] [illegible] vidit [illegible] in lumine rubro posita vividiorem [illegible] colorem [illegible] quam [illegible] contra caeruleum [illegible] in lumine caeruleo positum vividiorem exhibuit colorem [illegible], quam [illegible]: id vero argumento est, [illegible] radios rubros, quam caeruleos [illegible] [illegible] copiosius reflectere caeruleos, quam rubros, [illegible] corpora naturalia [illegible] radiolorum colorem exhibent quos reflectunt maxime aut transmittunt non omnia alba

128 [illegible] omnia radiorum genera in corpus [illegible] [illegible] omnia vel transmitti [illegible] corpus opacum, vel pellucidum

Sed [illegible] ad haec est responsio, nam corpus omne radios [illegible] reflectit, aut transmittit prout opacum vel pellucidum, sed aliquos intercipit, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] caeruleum colorem exhibent [illegible] [illegible] quia [illegible] caeruleos radios [illegible] non reflectunt, sed intercipiunt [illegible] omnia radiorum [illegible] [illegible] reflexit [illegible]

129: Opp: 2. Si colores corporum [illegible], [illegible] colori radiolorum, quos [illegible] reflectunt aut transmittunt, [illegible] ex coloribus naturalibus corporum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] [illegible] radiolorum [illegible] [illegible] [illegible] [illegible]

Sunt ex dictis ~~refractionis~~ ~~nempe~~ corpora licet unum aut aliud radiorum genus copiosius reflectant [illegible] [illegible] eligant [illegible] [illegible] radiorum ~~[illegible]~~ generis [illegible], reflectant aut transmittunt. [illegible] [illegible] de colores corporum ~~[illegible]~~ naturalium [illegible]

[illegible] naturae [illegible] [illegible] [illegible] [illegible] colores aut [illegible] a corporibus naturalibus radios [illegible] [illegible] [illegible] [illegible] [illegible] radiorum [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] naturalium corporum qui corpori [illegible] [illegible] sunt, [illegible] phaenomena [illegible], [illegible] [illegible] a coloribus [illegible] [illegible] qui homogeneae sunt et simplices

[illegible] [illegible]. [illegible] colores [illegible] miscent, [illegible] colorem [illegible] omnibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] varias [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et viridis [illegible] colorem obtinuit [illegible] colori [illegible] aut [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] perfecte obtinet [illegible] [illegible] quia in mixtione [illegible] [illegible] [illegible] [illegible] [illegible] radiorum omnes ut ad [illegible] [illegible] requisitae, sive [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], inde fit [illegible] [illegible] [illegible] experimento, quod describitur [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] colore, [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colorem, quibuscunque [illegible] radii [illegible] colores a corporibus reflexi [illegible] sunt [illegible] [illegible] [illegible] [illegible] [illegible] omnes [illegible] [illegible] [illegible] [illegible], [illegible] non obstat, quod [illegible] a coloribus naturalibus [illegible] a [illegible] radiorum phaenomena non [illegible] [illegible]

130 [illegible] [illegible] colores naturalium corporum [illegible] [illegible] [illegible] simplices et colores, [illegible] [illegible] a coloribus simplicibus radiorum semper differunt, [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] colores [illegible], [illegible] simplicibus compositos quosdamque simplices [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] naturalia reflectunt aut [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] corpora, [illegible] [illegible] [illegible] radios [illegible] reflectere, [illegible] [illegible] [illegible] [illegible] [illegible] radiorum [illegible] [illegible] [illegible], aut [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] [illegible] colorem [illegible] [illegible] [illegible], [illegible] [illegible] contingit, ut in corporibus [illegible] colores a simplici radiorum coloribus differant.

131 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colore nigro [illegible]

[illegible] [illegible] colores nigros [illegible] [illegible] [illegible] [illegible] a coloribus nigris [illegible] [illegible] colois corporum [illegible] corpora in [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] coloratis, quia corpora [illegible] omnes radiorum genera [illegible] reflectunt [illegible] [illegible] corpora [illegible] in [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpore [illegible] [illegible] [illegible], et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], et [illegible] [illegible] [illegible] [illegible] [illegible]

Item. ut tantummodi colorum ratio in hac sententia habetur

132 Oppt. ad fimbrias tantum colorata apparent in corpor[ibus] [illegible] albicant. quia

[illegible] vadis [illegible], sauy colorata in [illegible] partiy apparerent [illegible] [illegible]

[illegible] alba corpore radios omnium [illegible]. [illegible] transmittant raro tamen, [illegible] colores tan

[illegible] ad [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible] [illegible]: [illegible] quod [illegible] [illegible] [illegible]

[illegible] radios [illegible] [illegible] radii [illegible] [illegible] punto [illegible] vel transmissi in co

[illegible] a prismate [illegible] ita quidem ut [illegible] ad [illegible] [illegible] colo

res [illegible] [illegible] [illegible] [illegible] Violacei [illegible] vero [illegible] [illegible] flavi [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alicui colores vir

[illegible] [illegible] caeruleus violaceus, indicus et [illegible] inferiori [illegible] colores viridis [illegible] aurantius [illegible]

[illegible] [illegible] [illegible] a prismate [illegible] radii a puncto [illegible] [illegible], [illegible]

in locis [illegible] [illegible] [illegible] [illegible] [illegible] colores

[illegible] videbuntur. hinc intelligis [illegible] omni [illegible] [illegible] [illegible] in loco omni [illegible]

[illegible] [illegible] ita cadere [illegible] [illegible] ut ti ~~[illegible]~~ , ac inde colores

[illegible] [illegible], [illegible] contingit ad . . . . . . quae [illegible] superiori

margine [illegible] ac [illegible] [illegible] [illegible] ut [illegible] non habeant, [illegible] [illegible] [illegible]

[illegible] appareant [illegible] [illegible] illa corpora radios omnium ~~[illegible]~~ [illegible] [illegible] [illegible] [illegible]

[illegible], [illegible] [illegible] [illegible] prismate. [illegible] fimbrias tantum coloratas [illegible]

133 Sed hinc phaenomenon [illegible] quod [illegible] Neutoni [illegible]; at [illegible] si prismate [illegible]

[illegible] aspiciatur corpus [illegible] in fundo obscuro superius margo apparet tinctus colori

[illegible] flavo aurantio [illegible] inferior colores [illegible], caeruleo, indico, violaceo. [illegible] [illegible]

[illegible] [illegible] apparet [illegible] obscuro [illegible] aspiciatur. quod si [illegible] [illegible]

[illegible] [illegible] qui colores apparebant in corpore [illegible] [illegible] [illegible] [illegible]

[illegible], [illegible] in hinc [illegible] [illegible] [illegible]

De colorum immutabilitate [illegible] . . . . . .

[illegible] [illegible] [illegible] [illegible], si animadvertas quod violacei radii semper [illegible] om

nium ~~[illegible]~~ et maxime omnium, [illegible] [illegible] [illegible] [illegible] vel deorsum. [illegible] radii altius

[illegible] vel [illegible] [illegible] radios violaceos, et qui [illegible] ordine [illegible]: & quod ibi

[illegible] in confiniis [illegible], [illegible] ex albo [illegible] [illegible] [illegible] qui colores [illegible]

[illegible] [illegible] a [illegible] nigro [illegible] [illegible] quod ut [illegible] [illegible] a margine albo

[illegible] [illegible] [illegible] [illegible]

134 [illegible] prismate [illegible] [illegible] aspiciatur ~~[illegible]~~ flavum corpus in fundo obscuro

[illegible] [illegible]; in superiori [illegible] apparebunt colores viridis aurantius, flavus, ruber

[illegible] [illegible] [illegible] aspiciatur [illegible] [illegible] corpus in fundo claro apparebit [illegible]

[illegible] margo corporis obscuri [illegible] [illegible] viridi flavo. aurantio, rubro, [illegible] [illegible]

[illegible] [illegible] ad inferiorem marginem fundi clari pertinent et [illegible] marginem corporis obscuri

[illegible]. [illegible] autem margo corporis obscuri videbitur [illegible] [illegible] caerulea indico [illegible]

[illegible], [illegible] pertinent ad superiorem marginem fundi. [illegible] et [illegible] inferiorem marginem

[illegible]

12. Angulo [illegible] [illegible] aspiciatur [illegible] [illegible] in fundo [illegible] [illegible]

[illegible] obscurum in fundo claro, [illegible] [illegible]

[illegible] [illegible] anguli prismatis [illegible] colores [illegible] [illegible] [illegible] [illegible]

[illegible] Neutoni

34 Corpora aliqua eundem colorem exhibent radiis sive reflexis sive transmissis. [illegible] colorem [illegible] radios reflectunt vel transmittunt [illegible] radios [illegible]

[illegible]

Videtur hoc [illegible] colorem corporum [illegible]

[illegible]

35 [illegible] corpora [illegible] colorem [illegible] radios [illegible]

[illegible]

[illegible] corpora [illegible] colorem [illegible]

[illegible]

reflecterent, vel transmitterent haec corpora, ipso [illegible] bene explicatur. [illegible] quorumvis corporum [illegible] eo quod radios reflectunt [illegible] per hoc [illegible] ostendit. Propositio 3

[illegible] corpora [illegible] potius quam [illegible] radiorum genus reflectunt, [illegible] transmittunt [illegible] pro diversa crassitie et [illegible] lamellarum corpora componentium.

Nam [illegible] Observatione 4, [illegible] [illegible] lentes [illegible] formam [illegible] utrinque convexae [illegible] plano [illegible] componebat [illegible] annulos [illegible] circa [illegible] [illegible] ut [illegible] lamella aeris crassities [illegible] [illegible] [illegible] in lamella ipsa aeris [illegible] succedere [illegible] quorum [illegible] erat in [illegible] [illegible] [illegible] [illegible] semper [illegible] [illegible] [illegible] versus [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] in centro [illegible] [illegible] [illegible] [illegible] annulos [illegible] [illegible] [illegible] [illegible] coloris [illegible] [illegible] [illegible] [illegible] [illegible] in puncto contactus nigra [illegible] et [illegible] coloratis [illegible] ex hoc observatione [illegible] [illegible] [illegible] [illegible] [illegible] lamellae aeris [illegible] [illegible] [illegible] coloris [illegible] lamella ipsa [illegible] [illegible] [illegible] in reflexione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lamellae corporum [illegible] potius [illegible] reflectant [illegible] transmittant. [illegible] corpora [illegible] [illegible] [illegible] reflectunt [illegible] [illegible] [illegible] [illegible]

Hoc [illegible] coloris qui in [illegible] aquae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sicut aqua [illegible] [illegible] crassitie [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] et [illegible] [illegible] in annulos [illegible] [illegible] [illegible] nigra [illegible] [illegible] [illegible] [illegible] [illegible] autem hoc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ac corporum colores [illegible] [illegible] nostrae haberi possent ac similia, [illegible] [illegible] [illegible] colorum [illegible] [illegible] [illegible] in [illegible] lamellarum crassities ac [illegible]

2 Colorati liquores [illegible] miscentur colorum [illegible] [illegible] liquores [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] lamellarum crassitie ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible]

3. Corpora [illegible] radiis [illegible] transmissis [illegible] colorem [illegible] [illegible] [illegible] [illegible] [illegible] radiis rubea, [illegible] [illegible] caerulea. Et bracteola aurea [illegible] [illegible] radiis flava, [illegible] [illegible] caerulea [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

4 Liquores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] reflectendo vel transmittendo [illegible]

§ Corpora in aquis marinis [illegible] ad [illegible] perpendiculariter [illegible] apparent [illegible] colore [illegible], et in profundo marinis observare [illegible] ipsi [illegible] aquae maris [illegible] rubros [illegible] transmittere [illegible] rubros. [illegible] corpora aquis [illegible] immersa [illegible] [illegible] [illegible] [illegible] aqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

§ [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vapores [illegible] quippe [illegible] vapores tenues sunt [illegible] [illegible] violaceos, ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vero [illegible] crassiores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] rubeas [illegible] diversorum colorum [illegible]

§ Observatores aeris [illegible], [illegible] maximis [illegible] [illegible] reflexiones [illegible] [illegible] colores, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per aerem [illegible] [illegible] [illegible] [illegible] [illegible], ac [illegible] [illegible] [illegible] simul radiis [illegible] [illegible] [illegible] et [illegible], [illegible] [illegible] [illegible] [illegible] maxima parte [illegible] [illegible] [illegible].

§ Corpora [illegible] pro [illegible] incidentia radiorum ac positione [illegible] colorem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnes partes habent satis [illegible] [illegible] omnes [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], quae lamellas [illegible] [illegible] [illegible] [illegible] inaequalibus; [illegible] [illegible] [illegible] [illegible], ut [illegible] in [illegible] [illegible] [illegible] [illegible] quibus [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

139. [illegible] [illegible] [illegible] lamella aerea, ac [illegible] aquea [illegible] experimento [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] lamella [illegible] corporum, [illegible] [illegible] corporis. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lamellae aereae [illegible], aquae [illegible] [illegible] [illegible] [illegible] [illegible], ac [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] lamella [illegible] [illegible] [illegible] corporis [illegible]

§ [illegible] [illegible] [illegible] colores [illegible] [illegible] experimento, [illegible] a [illegible] lamellae [illegible] [illegible] [illegible] [illegible] [illegible] a [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] superficie [illegible], ac

§ [illegible] [illegible] [illegible] [illegible] lamellae crassitie [illegible] [illegible] colorem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

§ [illegible] lamellae [illegible] corpora componentes [illegible] lamellae aereae [illegible] [illegible] [illegible] [illegible] aquae [illegible]. [illegible] corpora componentes [illegible] lamellae [illegible] aquae [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lamellae [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lamellae componentes [illegible] [illegible] lamellae aereae [illegible].

§ [illegible] corpora [illegible] lamellis [illegible] [illegible], [illegible] [illegible] lamellis, ac [illegible] aqueae, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] lamella [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nulla causa est [illegible] [illegible] color non [illegible] [illegible] nulla est causa [illegible] [illegible] color [illegible] corporis [illegible] lamellarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] crassitiem [illegible] [illegible] [illegible] [illegible] maxima [illegible] [illegible] [illegible] [illegible] [illegible]

los, et lamellas corpora componentes et lamellas ipsas recurrendit, et quidem et lamellae colores varios pro varia oculi positione exhibeant, prout patet ex observationibus

itaque et filo serico nonnulla, et valde exilia, et tenues araneorum quorumdam telae, et avium plumae pro varia oculi positione varios colores praeseferunt ob parvaque illa filamenta quae plumis [illegible] uti tenues lamellae; aqua madefacta colores pejores obscurioresque ostendunt ut patet ex observationibus 10, et 21 jam citati libri, ita et panni bombycini, et lanei, aliaque ejusmodi corpora aqua madefacta, vel oleo inuncta colorem obscuriorem trahunt, et recuperant clariorem cum fuerint exsiccata: denique et lamellae coloribus aliis transmittendis, aliis reflectendis [illegible] sicut apertum est ex observationibus 9, et 20 citati libri, ita bracteolae auri, vitro quodam [illegible] libri [illegible], et alia quaedam corpora colorem unum reflectunt, alium transmittunt [illegible] tanta ratio, sive analogia, et tenues lamellas, lamellis corpora componentibus, et utraque corporibus [illegible] corporatis [illegible] in probatione experimenti, tenues lamellae pro varia, qua [illegible] crassitie et profunditate [illegible] potius quam [illegible] generi reflectendo, vel transmittendo aptae sunt [illegible] lamellarum quibus constant, crassitie ac profunditate, corpora potius unum quam alium [illegible] vel transmittendo apta erunt.

Colores qui in primo relato Newtoni experimento apparebant non a reflexione vitrorum, sed a reflexione aereae lamellae [illegible] habet Newtonus [illegible] [illegible] invicem monstrant; quia cum vitra ad se invicem apprimerentur [illegible] mutatione in crassitie, ac profunditate aereae lamellae, [illegible] colores mutabantur [illegible] a lamella ipsa oriebantur colores [illegible] in qua [illegible] aqua [illegible] Newtonus ita ut eo [illegible] in spatio [illegible] observavit Newt. [illegible] reflexione colores [illegible] contrarii qui [illegible] devenissent, [illegible] in prima lentis prioris superficie reflexis. Igitur merito asseruit Newt. colores ipsos a reflexione aereae lamellae [illegible] productos [illegible] colores illos a reflexione [illegible] superficiei lentis [illegible] provenisse [illegible] rationibus [illegible]

[illegible] vero [illegible] successionem colorum in eodem experimento observatam, cum vitra ad se invicem apprimerentur, [illegible] quod [illegible] successiva mutatione crassitiei et profunditatis in aerea lamella [illegible] [illegible] [illegible], [illegible] Newt. cum vitra a se invicem lente removerat, [illegible] lamellae aereae [illegible] crassities ac profunditas [illegible] ordine [illegible] colores [illegible] successivos [illegible] ordine inverso [illegible] posse, [illegible] successionem illam colorum, non [illegible] fortuitam sed [illegible] mutatione crassitiei et profunditatis in lamella [illegible] colorum mutationis [illegible] [illegible].

[illegible] Saepe mutata lamellarum crassitie, et profunditate [illegible] corpora contunduntur, [illegible], [illegible] colores non mutantur ergo

[illegible] lamellarum crassities et profunditas pendet a magnitudine particularum quibus constant, [illegible] a [illegible] lamellarum crassitie, et profunditate [illegible] [illegible] magnitudine [illegible] semper colorem [illegible] Newtono [illegible]; [illegible] ostenderet [illegible] superficies [illegible] lamellas habeant [illegible] crassities et profunditatis [illegible] colorem [illegible] contra ac Newtonus asserit [illegible]

[illegible] [illegible] corporum [illegible] variam [illegible], et variam quae in componentibus [illegible] dispositionem [illegible] omnes [illegible] [illegible] textura et [illegible] [illegible] in corporibus [illegible] continentur [illegible] lamellarum, quibus constant crassities et profunditates mutatur [illegible]; si [illegible] corpora ipsa [illegible] contunduntur [illegible], aut [illegible], colorem non mutare si

oriundum diversum fuerit, sed ad theoriam nostram requirit ut cognita tenuitatem crassitie, ac profunditate [illegible] oriri debeat color

Per tenuitatem crassities, ac profunditas reducuntur a magnitudinem particularum pendere videntur a magnitudine, et dispositione pororum, qui vel vacui, vel aethereo fluido repleti particulas interjacent; itaque non solum particularum magnitudo, sed etiam pororum quantitas, et dispositio relate ad colores sunt consideranda: quare merito Newtonus docet in corporibus sive solidis sive fluidis, locum colorum quamvis vel quovis densitate [illegible] [illegible] laborum [illegible] conjungi

Nec vero deducendum hinc est corpora nonnisi simplicem unum colorem exhibere posse, quod omnino [illegible] accedit[illegible] tur, tum ex eo, quod non eiusdem possunt crassitudinis omnes particulae superficiem corporum componentes [illegible] [illegible] [illegible] in veteris prima operatione combinationibus naturae; tum ex eo quod in [illegible] [illegible] [illegible] [illegible] habendis crassitudines admodum diversas, [illegible] omnibus aliquid coloris miscebit, ut idem Bernu[illegible] observat paragrapho 103 [illegible]. Propositio [illegible]

Systemata Aristotelis, Cartesii, Malebranchii, Gassendii, Boylei, Fabri, Boscovic, Rizzetti, [illegible] [illegible], Zollierii, et similium relate ad colores corporum rejicienda sunt

Post expositum Newtoni systema de coloribus corporum, [illegible], ac experimentis [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

1. Aristoteles, quos ex scholasticis [illegible] [illegible] sequuntur colores dicebant accidentia [illegible] sive qualitates [illegible] [illegible] [illegible] iisdem [illegible] [illegible] [illegible] [illegible] [illegible] in nostris oculis [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] [illegible] dispositionem adeo [illegible] radios [illegible] modo reflectendi, vel transmittendi [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores non esse accidentia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nostri corporis [illegible] [illegible] et solvemus; [illegible] [illegible] [illegible] colores.

[illegible] [illegible] sensationem colorum [illegible] [illegible] [illegible] sensationem caloris, [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nos [illegible], [illegible] nec dolor, [illegible] corpore [illegible], nec color [illegible] [illegible] corporis [illegible] [illegible] [illegible] sensationis ad certum objectum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sensatione [illegible] in objecto [illegible] [illegible] [illegible] [illegible] quae sensationem excitavit quidquid demum ea sit

2. Cartesius, qui [illegible] naturam constituebat in [illegible] [illegible] [illegible] elementi corpore [illegible] [illegible] [illegible] [illegible] colores varios [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impulsio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sensationem coloris rubri [illegible] [illegible] [illegible] [illegible] sensationem [illegible] [illegible] [illegible] [illegible] [illegible] sensationem colores [illegible] [illegible] [illegible] motus [illegible], et motus [illegible] [illegible] [illegible] [illegible] colorum sensationem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pro coloribus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnem rationem [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] diversum [illegible] motum; [illegible] [illegible] omnino [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in nota [illegible] paragraphi [illegible] [illegible] [illegible] [illegible] [illegible] diversos [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

ut omnium primus colorum species in alio oculo excitaverit ... separatim prismatis superficiei ... omnes ... [illegible] ... prima ... [illegible]

... [illegible] ... alio prismate ... varios eorum colores, ut ante ... [illegible] quisque suum constanter retineat

3 Malebranchius qui ut sonum in aeris ... vibrationibus, ita lucem in vibrationibus aeris ... constituit, colorum ... diversitatem a diversis ... vibrationum ... [illegible] ... siquidem diversarum ... [illegible] ... vel remissionis ... [illegible] ... sunt ... in vibrationes ... [illegible] ... vibrationes; semper ... [illegible] ... vibrationes non ... [illegible] ... quod a ... a corporibus ... refractione vel reflexione ... [illegible] ... excitabitur, varii colores producentur ... [illegible] ... radios uno prismate separatos in ... [illegible] ... vibrationum inducere ... [illegible] ... refractiones ... [illegible] ... a primo prismate vibrationum diversa species ut inter varios colores ... [illegible] ... vibrationum diversitas ... separatis radiis per novum prisma accedit.

4 Grimaldus, Boileus, ... Boravius, aliique ... [illegible] ... corpora ... [illegible] ... a corporum superficiei ... majori vel minori ... [illegible] ... superficies obscuritates, ac asperitates ... [illegible] ... ad modum ... [illegible] ... reflectere ... in radiis ... a corporibus ... [illegible] ... et umbrae ... [illegible] ... colorum ... Sed et hanc ... Newtonum ... sententiam ... [illegible] ... difficile est, ... homogeneus radius prismate separatus ... prisma ... [illegible] ... secundo prismate ... [illegible] ... colligentur varios colores ... [illegible] ... prisma trajectus fuerit ... colores ... [illegible] ... reflectiones, vel refractiones ... [illegible]

5 Rizzettus ... [illegible] ... colores ... [illegible] ... vel corpus obscurum per medium ... sive hoc nigro violaceo vel umbra ... [illegible] ... sola ... [illegible] ... corpori ... [illegible] ... per vitrum ... [illegible] ... vitrum ... [illegible] ... Uterius charta nigra in umbra posita ... obscurum ... [illegible] ... per vitrum ... sole ... [illegible] ... si vitrum ... charta ... [illegible] ... Denique charta alba sole ... [illegible] ... per ... vitro ... [illegible] ... propius oculo sole ... [illegible] ... charta ... [illegible] ... a corpore claro ... per medium obscurum ... per medium ... [illegible] ... videtur ... [illegible] ... colorem ... [illegible] ... adhibito ... [illegible] ... radios mittet per medium obscurum ... [illegible] ... color ... corpus obscurum ... radios per medium clarum ... tenuis, habebimus color violaceus, si magna purpureus ... [illegible] ... corpus ... per medium obscurum et clarum ... [illegible] ... varii oriuntur colores.

[illegible] non dubito, quia [illegible] diversos [illegible] Rizzettus [illegible] [illegible], [illegible] vel [illegible] spiritu aut [illegible] adhibuisset [illegible] proprietas sive vitri [illegible], sive [illegible] spiritu, ut vel pro majori vel minori crassitie transmittat radios [illegible] flavos, et pro majori [illegible] reflectat radios purpureos magis, vel minus claros, [illegible] in [illegible] experimento [illegible] transmissi a vitro radiis [illegible] pro majori vel minori vitri crassitie apparuerit rubra, vel flava, et secundo experimento [illegible] reflexi pro majori vel minori [illegible] colorem [illegible] purpureum magis vel minus clarum [illegible] [illegible], [illegible] non [illegible] purpureum obscuriorem, [illegible] in 3° experimento [illegible] radiis [illegible] transmissi a [illegible] vitro et purpureis reflexis a [illegible] [illegible] simul [illegible] rubeis a primo vitro transmissis, et violaceis a secundo reflexis [illegible] [illegible] apparuerit [illegible] colorem [illegible]. [illegible] experimenta, quae in [illegible] Rizzettus, nil [illegible]

[illegible] Rizzetti opinionem [illegible] [illegible] a [illegible], [illegible] [illegible] spatium [illegible] omni luce [illegible]. [illegible] hoc [illegible] [illegible] et [illegible] ad colores varios [illegible]? [illegible] hoc [illegible] in luce [illegible] proprius partibus [illegible] et [illegible] Rizzettus [illegible] in sententiam [illegible] [illegible]; [illegible] corpus [illegible] obscurum [illegible] [illegible] videri debet, vel flavum, [illegible] trans vitrum [illegible] omnis [illegible] apparet rubra, vel flava? et si corpus [illegible] varia [illegible] apparere debet, violaceum vel purpureum [illegible] in umbra [illegible] [illegible] colorata [illegible] violacea [illegible] purpureum [illegible]

ibid. [illegible] Gottignies [illegible] [illegible] principios [illegible] [illegible] album et nigrum [illegible] [illegible] umbram habet [illegible] pro [illegible] [illegible] quos autem colores ex albo et nigro [illegible] [illegible] varia modo inter se [illegible] [illegible]. [illegible] umbra [illegible] et [illegible] oculos [illegible] sive [illegible] [illegible] colores rubeos, [illegible] flavos [illegible] majori [illegible] umbra [illegible] [illegible] [illegible] umbram [illegible] [illegible] [illegible] [illegible] et [illegible] violaceos colores [illegible] [illegible] [illegible] ab opinione [illegible] omnino [illegible] [illegible] [illegible] quibus [illegible] [illegible] [illegible] sit addere [illegible] [illegible] [illegible] absolutam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] umbram [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible]: [illegible] in umbra [illegible] [illegible] [illegible] de umbra [illegible] [illegible] [illegible] de umbra [illegible]. Sed de luce coloribus satis sit

Sectio Quarta

De qualitatibus corporum spectantibus ad sensum auditus

43 Cum vero de qualitatibus corporum ad sensum visus spectantibus disseruimus, praeter eas [illegible] quae [illegible] sensum officiunt, siquidem visu excepto nullus videtur [illegible] sensus auditu utilior ac accuratior: corporum qualitates, quae auditus sensum officiunt, consequens est, ipsam sonorum doctrinam hac sectione complectamur.

[illegible] Sonum [illegible] dicimus quicquid efficit ut mediantibus auribus animus audiat ac id et hoc in primo sui divisi, et secundario solus sive in primario, alia [illegible] illa est qualitas, qua corpus sonorum constituitur: alia vero qualitas [illegible] effectio, quae a sonoro corpore per medium aeris diffusa ad aures nostras [illegible] et commovet, et efficit ut animus [illegible] sensationem. Sonus [illegible] qui a corpore sonoro fluit ad organum [illegible] qui a corpore sonoro in alias partes corporis atque inde ad aures nostras [illegible]. ~~[illegible]~~

[illegible] Caput [illegible]

[illegible] Porro [illegible] sonus non in ~~[illegible]~~ motu [illegible] corporis sonantis, sive [illegible] sed in motu tremulo [illegible] partium corporis ipsius [illegible] ut [illegible] patet, notamus: tremorem non aliud esse quam vibrationem [illegible] in corda tensa [illegible] vibrationem vero [illegible] et [illegible] repetitam [illegible] quod dicimus [illegible], et accidit in corda quae [illegible] ut [illegible] oculo conspicuum [illegible] potest corpus [illegible] corpus [illegible] ossilat, et apparet in corda utrinque maxime tensa, [illegible] corporis partes, [illegible] velocitas [illegible] restitutio [illegible].

1° Vero sonus primitivus positus non in totius corporis oscillatione [illegible] videtur [illegible]
([illegible] e i corde clavi cui [illegible] per [illegible] oscillat et sonat, [illegible] [illegible] sonus
[illegible] ob dicta [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible]
constet [illegible] [illegible] quod sonus [illegible] corda [illegible] violenter tensa si [illegible]
velociter percutiatur oscillat, nec tamen sonat [illegible] [illegible] in [illegible] [illegible]
post [illegible] [illegible] [illegible] [illegible] corda [illegible] tensa [illegible] [illegible] [illegible]
[illegible] habeat in magnis oscillationibus [illegible] [illegible] parvum emittit sonum [illegible] [illegible]
modo sonat et [illegible] si non sit valde tensa, licet [illegible] percutiatur, et in [illegible] [illegible]
oscillationes [illegible] [illegible] [illegible] [illegible] sono [illegible] oscillat, et [illegible] [illegible] corda [illegible]
[illegible] adhuc [illegible] oscillari [illegible] in [illegible] [illegible] [illegible] sonus [illegible]
[illegible] [illegible] [illegible] in [illegible] corpus, oscillationes [illegible] et [illegible]
[illegible] sonus [illegible] [illegible] [illegible] sonus primitivus in [illegible] corporis [illegible]
non consistit, sed potius in motu tremulo minimarum particularum corporis [illegible]
corpora ut sonant [illegible] minimarum particularum tremulo [illegible] docent observationes: [illegible]
[illegible] manus sonanti corpori admota sonum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] si [illegible] corpus sonans [illegible] [illegible]
[illegible] [illegible] aqua contenta in vase vitreo [illegible] labro [illegible] digito
[illegible] et sonum emittant [illegible] [illegible] et [illegible] [illegible] videtur [illegible]
[illegible] particulas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] sonus [illegible] [illegible] [illegible] [illegible] observationes: [illegible] corpore [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quippe [illegible] [illegible] [illegible] tremores in par-
[illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] corpora si corpore [illegible]
[illegible] quod tremores [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] percutiuntur, [illegible]
[illegible] [illegible], vel [illegible] [illegible] [illegible] contra [illegible] [illegible] [illegible] corpore [illegible]
[illegible] [illegible] [illegible] [illegible] et corda [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sonus primitivus non in motu totius corporis [illegible]:
2° [illegible] in tremulo [illegible] [illegible] [illegible] particularum medii [illegible] consistit sonus [illegible]
([illegible] [illegible] motus a sonante corpore medium [illegible] diffunditur, quippe [illegible] [illegible]
[illegible] [illegible]: 42 [illegible]: 2 [illegible] [illegible] vibrantes sonori corporis [illegible]
[illegible] partes medii sibi proximas [illegible] [illegible] comprimunt, et [illegible]
[illegible] [illegible] partes compressas [illegible] restituere et [illegible] inde [illegible]
partes [illegible] medii [illegible], et [illegible] [illegible] [illegible], [illegible] [illegible]: [illegible] autem partes [illegible]
sonoro proximae corpori [illegible] et [illegible] [illegible] vibrationes producunt in [illegible]
[illegible] proximis et [illegible] [illegible] in [illegible] [illegible]. [illegible] [illegible] [illegible] tremor [illegible]
[illegible] [illegible] a sonoro corpore [illegible] medium sonum [illegible] in motu ipso [illegible]
[illegible] sonus [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] medium [illegible] [illegible]
sonus diffunditur. [illegible] autem [illegible] veritas, [illegible] ipsa [illegible] [illegible]
[illegible] [illegible] si [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
superficie [illegible] observantur producti a tremoribus [illegible] [illegible]. [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in tremulo motu [illegible]:

150 Sed omni nec primitivum nec derivativum sonum esse in motu tremulo consistere ne[c] [illegible] [illegible], ut corpora sonora resonant et media sonum afferent dividi debeant, ut dissolvi [illegible] [illegible] in corporibus duris [illegible] quam solor [illegible] [illegible] partium [illegible].

2 Exclusi [illegible] [illegible] quandoque excitatur sonus in corpore satis magno qui ad [illegible] spatia distenditur [illegible] [illegible] particulis magni corporis, ut medii sonum [illegible] [illegible] tremuli motus adeo in ipsis potest communicari

3 Sic ordo [illegible] [illegible] non motu [illegible] [illegible] [illegible] [illegible] corporibus sed [illegible] [illegible] [illegible] Ad vero quomodo diversi hi soni adscribantur, [illegible] [illegible] [illegible] potuerunt et [illegible] [illegible] etc.

Verum [illegible] [illegible] corpora resonant, et medio sonum afferant partes ipsorum minimae tremores [illegible] neque omnes [illegible] [illegible] [illegible], neque [illegible] [illegible] quae a [illegible] [illegible] [illegible] [illegible] [illegible] et actionis [illegible] [illegible] [illegible] corpora ipsa [illegible] [illegible] dividi debebunt nec dissolvi. Hinc non officit partes corporum [illegible] [illegible] [illegible] partes omnes perturbato moveri, et vindo [illegible] [illegible] [illegible] partes omnes [illegible] [illegible] tremores [illegible] perturbatas agitationis [illegible] [illegible] [illegible] [illegible] quod et [illegible] ob [illegible] motus in corporibus [illegible] medii sonum [illegible] non [illegible]. [illegible] in primis corpora [illegible] [illegible] [illegible] non dissolvuntur [illegible] dissolvi debebunt corpora resonantia, et media sonum deferentia [illegible] multo [illegible] tremore partium [illegible]. [illegible] corpora [illegible] resonant et media [illegible] sonum deferunt [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] et [illegible] in corpore [illegible] quae et [illegible] moveri [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible] corpora [illegible] et sive medio [illegible] [illegible] [illegible] [illegible] motu tremulo partium minimarum [illegible] tremulo ipso motu [illegible] adeo et [illegible] non esse ut dissolutionem corporum et [illegible] [illegible] [illegible] [illegible] [illegible]

Fig. 2. [illegible] [illegible] [illegible] sonum satis magnum [illegible] [illegible] produci [illegible] [illegible] [illegible] [illegible], in corpore [illegible] [illegible] valde [illegible], [illegible] [illegible] [illegible] [illegible] ab [illegible] [illegible] derivatur. [illegible] [illegible] tremores valde [illegible] [illegible], et vi [illegible] [illegible] esse [illegible] [illegible] [illegible] [illegible] tremores ipsos [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] corpus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] adeo [illegible] ut [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporibus [illegible] [illegible] [illegible] tremores [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible]

3. [illegible] et diversitas sonorum a [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tremores [illegible] [illegible] [illegible] [illegible] in corpore sonoro, et medio [illegible] [illegible] [illegible] tremores [illegible] partes [illegible] [illegible] [illegible] [illegible] [illegible] quantitate [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tremorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]

Cap. 1 Q[illegible] [illegible] in [illegible] minimorum partium tremulo, sed in motu [illegible] constituendum [illegible]. Nos

1 [illegible] sonum [illegible] oscillatorio motu [illegible] [illegible] corporis oscillationes [illegible] objecto sonus [illegible]

2 Posito [illegible] motu tremulo [illegible] sonus [illegible] [illegible] Mosca[illegible] [illegible] [illegible] tremorem ac [illegible] et vibrationes in minimis partibus concipiunt quam [illegible] [illegible]

3 Si [illegible] motu tremulo sonus [illegible] sonorum comparare [illegible] tremorem qui [illegible] [illegible] [illegible] [illegible] [illegible] tremore partium minimorum [illegible] [illegible] [illegible] in [illegible] [illegible] in [illegible] [illegible] [illegible] et [illegible] [illegible]

[illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] potest et [illegible] videatur [illegible] corporis oscillatio [illegible] [illegible] partium minimorum [illegible] [illegible] [illegible] [illegible] corporis oscillationem [illegible] sonus [illegible] ab oscillatione [illegible] ratio [illegible] non habeatur.

[illegible] 2 [illegible] observatio nobis non officit. [illegible] determinare [illegible] potuit, an tremor [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] experimentis [illegible] [illegible] [illegible] tremores et [illegible] [illegible] sonos [illegible] [illegible] impedire [illegible] [illegible] [illegible] [illegible] [illegible] adhuc [illegible] [illegible] propositionem nostram [illegible] [illegible] 52

[illegible] [illegible] loco [illegible] [illegible] corporum [illegible] [illegible] [illegible] [illegible] [illegible] tremorem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non accidit [illegible] [illegible] [illegible] partium comparatione [illegible] [illegible] [illegible]

2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in illis oritur [illegible] [illegible] partium minimarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] metallicis [illegible] [illegible] [illegible] [illegible] [illegible] ubique [illegible] valde [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] tremores [illegible] in [illegible] minimis [illegible] [illegible] [illegible] [illegible] [illegible] tremoribus [illegible] particulae [illegible] in [illegible] [illegible] [illegible] cavitatis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporibus [illegible] particulae [illegible] [illegible] concipiendis tremoribus [illegible] [illegible] [illegible] [illegible] fluida aquae ac solida corpora sonum [illegible] [illegible]

3 [illegible] sonum [illegible] [illegible] [illegible] ~~[illegible]~~ [illegible] [illegible] [illegible] [illegible] a tremoribus [illegible] [illegible] [illegible] a tremoribus [illegible] [illegible] [illegible] [illegible] corporibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

sonat [illegible] et [illegible] et similiter videtur [illegible] sententia [illegible] posse

A Vox interna oritur a variis vocalibus [illegible] quos [illegible] ad trachea adductus quoties
[illegible] et alii [illegible] [illegible] et in aliis instrumentis [illegible], in his
sonus [illegible] [illegible] potuerit id [illegible] de voce [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible] ore [illegible], et [illegible] pellat, [illegible]
[illegible] agitatione [illegible] [illegible] quod est in ventre sonat et [illegible],
[illegible] [illegible] et [illegible] ~~[illegible]~~ [illegible] vel similiter alia ratione hinc
huiusmodi [illegible] vocis [illegible] Derivabitur tremore partium minimarum vel aeris [illegible]
ii vel organi quae sonum moduerunt.

5 Fragor [illegible] oritur a tremoribus [illegible] minimarum aeris, [illegible] pulveris [illegible]
[illegible] [illegible], et [illegible] occurrat [illegible] forma [illegible] partes [illegible]
[illegible] vero [illegible] [illegible] [illegible] et in loco, a quo [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] fit ut minime [illegible] in [illegible] [illegible] motu tremulo ac vibratio
[illegible] [illegible] vero efficit, quod nullus [illegible] fragor habeatur [illegible]
[illegible] in [illegible] [illegible] [illegible] [illegible] inde oritur [illegible] pulveris [illegible] [illegible]
successive [illegible] [illegible] [illegible] aeris [illegible], [illegible] et per [illegible] [illegible] [illegible],
[illegible], a quibus deinde tremulus partium motus [illegible] [illegible] [illegible] [illegible].
[illegible] in [illegible], in quo pulveris [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]: et

Sonori corporis vibrationes in [illegible] [illegible] [illegible] undulationes [illegible] non
motum tremulum ut videtur in aqua [illegible] [illegible] in [illegible] [illegible] [illegible]
undulationibus [illegible] non [illegible] in motu tremulo [illegible] sonus [illegible]:

Ad huius difficultatis solutionem [illegible] [illegible] [illegible] [illegible] principiorum [illegible]. [illegible]
[illegible] [illegible] tremulus corporis in medio non elastico [illegible] [illegible] sive [illegible]
[illegible] undulationes in medio [illegible] [illegible] propagare [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] manifestum est in nobis [illegible] [illegible] [illegible] [illegible] tremulus [illegible] esse
[illegible] media [illegible] elastica [illegible] [illegible] [illegible], motus [illegible] quod in elastico [illegible] [illegible]
[illegible] [illegible] [illegible] sive [illegible] non est [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] quos corpus tremulum in aqua producit [illegible] [illegible] [illegible] [illegible] minime
[illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] sive [illegible] [illegible] sive [illegible]
[illegible] [illegible] [illegible] in aqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible], quo diffunduntur soni [illegible] [illegible] sive in [illegible] magnis sive in parvis [illegible]
[illegible], [illegible] undulatorius motus [illegible] [illegible] [illegible] in aquis [illegible], [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible]. Ergo motus quo soni diffunduntur
non est undulatorius

[illegible] soni sive primitivi sive derivativi [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible], magis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]. [illegible] similiter pro vario [illegible] medii [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
~~[illegible]~~ facile [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible].

Caput Primum
De sono Vehiculo

53 [illegible]

54 [illegible]

55 [illegible]

[illegible]

[illegible]

3 [illegible]

156 Omne sonum per vacuum non propagari nec si sonus per aerem [illegible] [illegible] tior esset [illegible] sonativum corpus, quod in aliqua distantia vel intermedia corpora commoveat non semper ac [illegible], vel huius celeritatem [illegible] vide hoc 37 [illegible] hec non [illegible] 30.

2 Sonus [illegible] excitatus auditus et [illegible] Florentini [illegible] nos in [illegible] clauso audiri sonum foris excitatum, licet nulla sit communicatio aeris exterioris vel interioris [illegible]

Secundo Adi [illegible] sonorum omnis sonori aeris, radii nimis [illegible] maxime si [illegible] aeris ibi posita [illegible] variorum, et [illegible] radii aeris sonori in valde magna [illegible] corpore sonoro [illegible] nimis [illegible] eque [illegible] in minima [illegible] distantia a corpore sonoro [illegible] et [illegible] soni perceptio non habebitur, [illegible] vero in intermedia distantia [illegible] sonori radii temperatam [illegible] [illegible] plane [illegible] [illegible] perceptio ob [illegible] [illegible] sive nimis [illegible] sive nimis [illegible] a corpore [illegible] ad distantiam a [illegible] corpore mediocrem:

[illegible] in [illegible] sonus est [illegible] [illegible] aeris, [illegible] nulla [illegible] mutatione loci [illegible] [illegible] continuus aeris [illegible] successive [illegible] corpora [illegible] corpora ipsa [illegible] [illegible] commovebantur [illegible] in vento. [illegible] in vento [illegible] aeris commoventur in sono [illegible] ut non ostendimus [illegible] [illegible] sit in sono maior quam in vento [illegible] quod [illegible] corpore et [illegible] maius in vento esse [illegible]

[illegible] [illegible] experimento [illegible] in vacuo [illegible] [illegible] [illegible] rapere [illegible] apparatus [illegible] [illegible] in [illegible] vel [illegible] [illegible] in [illegible] experimenta [illegible] [illegible] sono [illegible] [illegible] in vacuo [illegible] sonore [illegible] et [illegible]

[illegible] vero [illegible] [illegible] pendet, vel ob aere [illegible] [illegible] parietes [illegible] tremores [illegible] [illegible] parietum minimis partibus, quae tremores [illegible] in interiorem [illegible]

[illegible] [illegible]:

157 [illegible] in [illegible] [illegible] [illegible] [illegible] sonus [illegible] [illegible] corpora [illegible] est [illegible]

[illegible] sonus qui a corpore in vacuo sonante [illegible] [illegible] aere exteriori [illegible] in corporis [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] 16. [illegible]

Afferri [illegible] in his tremoris [illegible] debere, quod ~~[illegible]~~ minime contingit
[illegible] procedendo ab aere tremulo in corpore, [illegible] hic [illegible] [illegible] [illegible]
[illegible] tremoribus [illegible] et [illegible] communicandis corpori [illegible] [illegible]
[illegible] ad [illegible] tremoris [illegible] [illegible] et communicaret ut corpus [illegible] sonans [illegible]
corpus [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] propterea corpora [illegible] alia [illegible] [illegible] [illegible] esse apta sono [illegible]
[illegible] [illegible] quare corpus [illegible] non est sonum [illegible] ergo [illegible] corpore [illegible]
quod [illegible] sonum
[illegible] [illegible] esse [illegible] [illegible] sono [illegible] et minus [illegible] corporis [illegible] esse [illegible]
[illegible] [illegible] [illegible] [illegible] homines [illegible] aquis mersi sonum corporis in [illegible]
aere sonantis audiunt et ~~non~~ aere exteriori audiunt sonum corporis [illegible]
[illegible] vero [illegible] huiusmodi [illegible] potest [illegible] ~~[illegible]~~ aeri qui in poris aquae lateat [illegible]
[illegible] [illegible] [illegible] aqua [illegible] [illegible] [illegible] non habent [illegible]
[illegible] [illegible] [illegible] [illegible] sonum ab aqua [illegible] [illegible]
[illegible] ab aqua [illegible] poris aeris [illegible] [illegible] [illegible] [illegible] aquae [illegible] sonum [illegible]
[illegible] diversitas aliqua sensibilis [illegible] in [illegible] utroque [illegible]?
[illegible] officit pariter quod [illegible] aliqui pisces [illegible] surdos esse quia in medio [illegible]
[illegible] [illegible] [illegible] in [illegible] argumentis [illegible] a natura [illegible] a sono [illegible]
[illegible] semper sunt [illegible] [illegible] [illegible] plures [illegible] [illegible]
pisces surdos esse [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible]
[illegible] quod aqua sonum [illegible] [illegible] nostrae [illegible] officit [illegible] et ipsa [illegible]
[illegible] [illegible] [illegible] est quod [illegible] sonum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in hoc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] propagatum [illegible] [illegible] sive per aerem [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] tremores [illegible] [illegible] [illegible] [illegible]
impossibile [illegible] [illegible] nec per aerem [illegible] per alia corpora [illegible] [illegible] [illegible]
[illegible] [illegible] in primis [illegible] esse [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] natura [illegible] sonos [illegible] [illegible] natura [illegible]
[illegible] propagantur soni [illegible] [illegible] [illegible] [illegible] est quomodo [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sonos [illegible]
[illegible] [illegible] [illegible] et aere [illegible] in primis [illegible] [illegible] hac in [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aliqua [illegible]
[illegible] demonstrant [illegible] hac nostra est [illegible] [illegible] [illegible] aliqua [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sonos propagari aere et [illegible] corporibus
[illegible] [illegible] [illegible] qui ~~[illegible]~~ [illegible] [illegible] [illegible] [illegible] [illegible] causas [illegible]
[illegible] [illegible] sonorum [illegible] [illegible] [illegible] in aere [illegible] [illegible] 160
[illegible] [illegible] [illegible] [illegible] sonum [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] sonum [illegible] [illegible] [illegible] [illegible] aere [illegible]
[illegible] undulationem naturalem esse, et in [illegible] aeris particulis [illegible] [illegible]

[illegible]

[illegible] exemplo [illegible] ... [illegible] partes [illegible] ... [illegible] [illegible] ossillat[illegible] ... ita [illegible] ut totius corporis [illegible] ... [illegible] tremorum [illegible] ... tremores [illegible] ... [illegible] tremores [illegible] ... [illegible] propagabunt

Theoria etiam [illegible] anno 1737: in actis [illegible] ... observationibus [illegible] elastico [illegible] ... differant non [illegible] ... tremores [illegible] ... [illegible] tremores [illegible] ... in corpore [illegible] ... [illegible] sonos [illegible] ... [illegible] vasa [illegible] ... [illegible] corpora [illegible]

[illegible] ibid addit [illegible] ... [illegible] aeris [illegible] ... [illegible] tremores [illegible] ... [illegible] omnes [illegible] ... [illegible]

[illegible] diversos tremores, quorum diversi [illegible] propagantur [illegible] ... diversis particulis [illegible] ... [illegible] tremores [illegible] sonos diversos [illegible] ... [illegible] tremores [illegible] ... [illegible] exemplo [illegible] ... [illegible] a natura [illegible] aeris [illegible] ... [illegible] tremores [illegible]

[illegible] Theoria [illegible] ... [illegible] particulas [illegible] ... [illegible]

[illegible] ... tremores [illegible], omnesque [illegible] ... [illegible] ... [illegible] ... [illegible]

2. [illegible] non potest [illegible] ... tremore [illegible] ... [illegible] ... post tremorem [illegible] ... [illegible] ... tremores [illegible] ... simpliciter [illegible]

[illegible] impossibile [illegible], quod [illegible] ... [illegible] ... tremores [illegible] ... apti, [illegible] ... [illegible] ... non [illegible] ...

4. [illegible] omnes particulas aeris [illegible] ... particulas aeris [illegible] ... circumambientes commovere, sed [illegible] ... non [illegible] ... [illegible] ... requirimus [illegible] tremores in particulis [illegible] ... a particulis [illegible] ... tremoribus [illegible] ... in his vero [illegible] ... [illegible] ... particulas alias omnes circumambientes commoveant [illegible] tremores certo sono [illegible] ... certis particulis aeris communicabuntur, atque ab iisdem particulis [illegible] ... ~~[illegible]~~ ... potest [illegible] ... [illegible] ... non omnia [illegible] ... [illegible] ... [illegible] ... tremores [illegible] ... sonum.

5. [illegible] ... inter chordas et particulas aeris [illegible] ... aeris particulae et [illegible] ... [illegible] ... in chordis sive in [illegible] ... chordas inter, et aeris particulas [illegible] comparationem [illegible] 163 [illegible] ... [illegible] ... dispositione, [illegible] ... [illegible] ... [illegible] ... tremorem [illegible] ... sonum [illegible]

6. [illegible] ... tremores [illegible] ... [illegible] ... tremorem [illegible] ... [illegible] ... motu [illegible] tremores [illegible] ... particulas ad tremorem [illegible] ... huic motui respondentes non sunt particulae [illegible] ... [illegible] ... circulis spatiis tremorum [illegible] ... [illegible] ... [illegible] ...

moris non servant per aeris particulas sine particulariae propagari [illegible] [illegible] in se [illegible] [illegible] [illegible] post [illegible] [illegible] [illegible] omnis [illegible] sonorum [illegible] corporis [illegible] huiusmodi sonorum compositionem [illegible] [illegible] obliquam [illegible] vibratione ac [illegible] quod tremores [illegible] ubi [illegible] per aeris particulas [illegible] [illegible]

[illegible] Quamvis [illegible] [illegible] quod semper [illegible] ubique aeris particulae tremori [illegible] [illegible] apta, id tamen [illegible] [illegible] [illegible] plura [illegible] [illegible] [illegible] tamen [illegible] [illegible] [illegible] [illegible] [illegible] prout plures [illegible] [illegible] [illegible] [illegible] [illegible] diversi [illegible] habet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non potuerit particula [illegible] [illegible] [illegible] tremoris generis omnis [illegible] apta sunt, ita [illegible] [illegible] instrumento [illegible] [illegible] [illegible] ab ipso sonus [illegible] [illegible]

[illegible] Ergo quae [illegible] [illegible] [illegible] videntur [illegible] [illegible] [illegible] obiectionibus [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] propagationis [illegible] [illegible] explicatione [illegible] [illegible] [illegible] quibus in [illegible] [illegible] obiectiones [illegible] [illegible] conciliemus

[illegible] quae [illegible] [illegible] differentiam sonorum [illegible] [illegible] [illegible] [illegible] [illegible] contendunt [illegible] diversi soni [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] simul [illegible] [illegible] [illegible] [illegible] experientiis sonis [illegible] difficultatem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] differentes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] difficultatis [illegible] [illegible]

[illegible] sonorum Differentiis

[illegible] soni comparari invicem possunt [illegible] [illegible] differentias, [illegible] in primis [illegible] differentias [illegible] [illegible] [illegible] [illegible]. Ceterum

[illegible] [illegible] soni [illegible] [illegible] [illegible] [illegible] maior aut [illegible] [illegible], scilicet intensior, vel remissior, prout [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] internus [illegible] missio soni [illegible] [illegible] [illegible] in [illegible] sonoro, vel in medio [illegible]

[illegible] corpora sonora [illegible] et [illegible] [illegible] [illegible] [illegible] a maiori aut minori [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] experimentis [illegible] [illegible] corpora sonora [illegible] sonum [illegible] intensiorem [illegible] [illegible] [illegible] [illegible] [illegible] corpora [illegible] sonum intensiorem [illegible] [illegible] [illegible] corpora sonora [illegible] [illegible] [illegible] sonum [illegible] intensiorem [illegible] [illegible] et [illegible] [illegible] corpus [illegible] [illegible] [illegible] vibrationibus in corpore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] corpore [illegible] [illegible] [illegible] [illegible] [illegible] vel partes [illegible] in maiores [illegible] [illegible] [illegible] [illegible] [illegible] maiores [illegible] vibrationes [illegible]

[illegible] [illegible] [illegible] sonorum nemo [illegible] [illegible] soni [illegible] [illegible] [illegible] [illegible] [illegible] a maiori vel a minori numero particularum [illegible] vibrantium [illegible] [illegible] tremorum [illegible] [illegible] simul [illegible]. [illegible] [illegible] soni [illegible] [illegible] [illegible] [illegible] [illegible] partium [illegible] [illegible] [illegible] aeris vel [illegible] [illegible] et quae [illegible] ratione [illegible] [illegible] [illegible] [illegible] [illegible] hanc quaestionem [illegible] [illegible] soni [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Propositio Prima

Porro sonori intensitatem per rarefactionem aeris in vacuo statim evidentem ... ut quae ... pro ... ut ... ut ... [illegible] ... pro ... [illegible]
... [illegible] ... [illegible] ... [illegible]
... [illegible] ... aeris ... [illegible]
... aeris ... sonori ... videtur ... [illegible]
... [illegible] ... [illegible]
... [illegible] ... sit Propositio Secunda

Sonorum intensitas ceteris paribus sequitur rationem aeris densitatis ... [illegible]

[illegible] ... in vase ... aeris ... in quo ... aeris ... [illegible]
... quanto ... vase ... vero ... aeris ... [illegible]
... [illegible] ... soni ... pervenissent viderentur ... [illegible]
... aeris densitatem ... [illegible]
... [illegible] ... haberet ... [illegible]
... aeris ... vero ... hoc experimento ... [illegible]
... pro ... aeris in vase ... [illegible]

Primo, quod soni sint ut quadrata densitatis aeris, ... propagati ... [illegible]
... ostendemus; ... in allato experimento ... [illegible]
... soni ... ut quadrata densitatis aeris

Secundo, quod soni sint ut quadrata ... aeris ... [illegible] ... densitate
... aeris ... [illegible]

Tertio denique, quod soni sint ut producta densitatis in ... [illegible]
... densitatis ... [illegible]

Ipso vero ... quaestio ... quae ... in natura ... [illegible]
... quod ... in experimento ... [illegible]
... [illegible] ... omnino ... [illegible]

Hoc ... quod ... soni ... ut ... [illegible]
... [illegible]
... [illegible] ... postmodum ... sonum ... [illegible]
... [illegible]
... aer in vase ... [illegible]
... in vase ... soni ... [illegible]
... [illegible]
... densitate aeris manente ... [illegible]
... in vase ... aeris non ... soni ... [illegible]
quadrato densitatis aeris.

... [illegible] ... vase ... [illegible]
... aeris ... [illegible]
... soni ... [illegible]
... [illegible] ... quadrata ... [illegible]
... [illegible]
... aeris ... [illegible]
... soni ... densitatis quadrata

Igitur z lex superatt soli quæ soni potest et vidett ejus sive est productæ densitatem aeris in elasti
citates que supplementis a secunda composite densitatem aeris et elasticitatem. hinc exit lapis et experim
tum quibus convertit et q nec tentavit Zanottus non ... et ac diligenter ... vero et Za
nottus ... hac haec certe experimenta ... a ratione videtur ...
ra omnia ... sive ... sonantia ... magis elastico, quid est quod aere ... ?
id quæ parte majorem esse soni ... quarto ... quæ sonant ...
sonare in condensato quod in raro ... quoque densitatem non ...
soni condensare ... ... sonare ... in quod ... ex eo est ...
... Zanottus ... in temperaturis ... non ... proportionibus
Ligua compositis ...

... Capi in secundo experimento Zanottus supponit elasticitatem aeris ...
... ... :

Verum observat Zanottus ipse, quod ... colore majorem aqua, et elasticitate ...
... ... colore ... ... et ... ... elastica
... ... quantum ... ... ipsi addit color, ... obnubilatam ...
... ... Zanotti
... ...
... ... et Zanottus supponit ... ...
... aeris et in experimento Zanotti ... aeris a calore aucta fuit ...
... ... Et contra ... ... experimentum Zanotti ... ...
non esse et quadrata elasticitatem aeris

... Postea in sonis hoc Zanotti ... ...
... ...

Praeterea hoc ipso ut ... convenit quod Zanottus ... ut ... in aere elasticitates sive
proportionales densitatibus Zanotti ipso ... ... ut productae densitatem in elastici
tates ... ...

... Adi ... posito in sonis ... coloris per se ... ... elasticitatem ac ...
... aeris mutat ... ... elasticitatem ... densitatem aeris ...
... per se ... ... inter ... non ... ...
Zanottus ... ...
... ... sonantia ... ...
... quod ... ...
elasticitatem ac densitatem aeris. Cum ergo in Zanotti ... ... ratio ... densitatis
ac elasticitatis ... ...
... ...

... talis ... a Zanotti ... ...
... ... elasticitates ... ...
... ...
... ... ut in experimentis Zano
tti ... ... densitas ac elasticitas ... ...
... soni ... ... elasticitas ... ...
elasticitatem contra ... densitas ac elasticitas aeris ... ... soni ...
... ... elasticitatem aeris ... ...
... ...
... Zanottus ... ... Zanotti ... ...

170 [illegible] duplicatum aeris [illegible] [illegible] tremorum [illegible] duplicato [illegible]
tremorum [illegible] sonus [illegible] duplicato aeris [illegible]
[illegible] hoc [illegible] explicatur [illegible] sonus quadruplus [illegible]
171 [illegible] distinctione respondeo [illegible] explicatur [illegible] tremorum [illegible] comedo [illegible]
[illegible] aeris [illegible] particulae [illegible] pro ratione compressionis majoris
[illegible] duplicato [illegible] explicatur [illegible]
[illegible] tremorum quantitas non dupla [illegible]
[illegible] dupla [illegible] duplicatae [illegible]
[illegible] quadruplo [illegible] plane [illegible] postulat [illegible]
[illegible] ac experientia confirmat.
172 [illegible] a Hanotto [illegible] soni [illegible] per densitatem aeris [illegible]
[illegible] confirmat [illegible].
173 [illegible] hoc loco dicemus si [illegible] a Hanotto [illegible] in aere [illegible] medii [illegible] (longis [illegible])
[illegible] comedo [illegible] sonus [illegible]
[illegible] medio [illegible] aeris [illegible] natura 16
[illegible] in [illegible] hinc in [illegible]
[illegible] majores [illegible] majores [illegible]
[illegible] medio [illegible]
172 Ex his [illegible] Hanotto [illegible] sonorum [illegible] aestimari [illegible]
[illegible] aere compresso soni [illegible] majores [illegible] compressione [illegible]
2 Ob calorem sonus in aere aperto minuitur, in [illegible] aperto aere [illegible]
minuitur [illegible] observationes [illegible] calore [illegible]
[illegible] Derivatis [illegible]
3 Soni [illegible] per [illegible] et per [illegible] et nocte
[illegible] differentiis.
179 Sonus [illegible] magnitudine [illegible] habere [illegible]
[illegible] majori [illegible] comprehendi [illegible]
[illegible] Acuties [illegible] omnino a numero vibrationum
[illegible] tempore [illegible] particulae [illegible] crebriores [illegible]
[illegible] acutior [illegible] sonus [illegible] et [illegible] Starcii [illegible]
[illegible] monstrarunt [illegible] acutiori [illegible] organum [illegible]
[illegible] acutum [illegible] rationem [illegible] Bernoulli [illegible] distincti [illegible]
[illegible] in gravioribus [illegible] non [illegible] acutiores [illegible]
[illegible] crassa, et magis [illegible] quia [illegible] acutiores [illegible]
[illegible] acutas, et gravitas [illegible]
[illegible] intensitas et remissio aestimantur a majori vel minori [illegible]
tremorum [illegible] tempore [illegible] contra [illegible] gravitas [illegible]
[illegible] tremorum numero [illegible] fuerit
Acuties et gravitas sonorum [illegible] majorem vel minorem [illegible] 19
[illegible] [illegible]
[illegible] a Martino [illegible]
[illegible] hic [illegible]:

1 Si [illegible] partes longitudine [illegible] sonorum differant ~~[illegible]~~ longiores erunt [illegible]
2 Si differant crassitie graviores sonabunt [illegible]
3 Si differant elasticitate, quae magis elastica erit sonabit acutius
4 Si differant tensione quae magis tensa erit sonum edet acutiorem
5 Si differant vi impulsionis [illegible] iisdem manentibus [illegible] diversimode et notabiliter [illegible]
[illegible] manebit eadem in omnibus acuties vel gravitas. tantum [illegible] sonus [illegible]
34 [illegible] sonorum alii [illegible] aut [illegible] alii obtusi aut clari alii [illegible] aut [illegible]. Sonus
[illegible] qui [illegible] compositi ex pluribus [illegible] diversis nec certa ratione [illegible]
: [illegible] si partes corporis sonantis aut medii sonum [illegible] [illegible] nec tam [illegible]
[illegible] aut [illegible] [illegible] in [illegible], et notabiliter [illegible]
[illegible] dispositionibus intelliges quid sint soni [illegible], clari, obtusi.

Caput [illegible] Tertium
~~De Sonorum~~ Propagatione

35 [illegible] [illegible] sonorum [illegible] experimentis [illegible] de sonorum propagatione [illegible]

Sonus propagatur in sphaericam expansionem

36 [illegible] Sonus [illegible] in medio elastico [illegible] [illegible] [illegible]
[illegible] sonus [illegible] [illegible] [illegible]
in [illegible] [illegible] experimur ab omni parte audiri sonum
sive [illegible] sive [illegible] ~~[illegible]~~ [illegible] [illegible]
37 [illegible] sonus [illegible] et clarior [illegible] parte [illegible] quod [illegible] in [illegible]
[illegible]
[illegible] in propagatione [illegible] sonus [illegible] [illegible] sonus aeque [illegible]
[illegible] et [illegible] [illegible]
[illegible] intervallo: in priori casu in [illegible]
[illegible] ~~[illegible]~~ ubi [illegible] erunt [illegible]
[illegible] [illegible] [illegible] partem omnem [illegible]
[illegible] eadem [illegible]. Cum hoc [illegible] in [illegible]
[illegible] sonus [illegible] vero [illegible]
[illegible] sonus in [illegible]
[illegible] et [illegible] et clarior videatur [illegible].

38 [illegible] Sonus non propagatur [illegible] [illegible] propter [illegible]
[illegible] propagatur sonus in medio [illegible]
[illegible] in pluribus [illegible] et [illegible] in [illegible]
[illegible] [illegible] [illegible]
gravitatis [illegible] [illegible] [illegible] altitudine: [illegible]
[illegible] soni [illegible] propagatione [illegible] modo propagationem [illegible]
[illegible] in [illegible] [illegible] hinc [illegible]
[illegible] in pluribus [illegible]
[illegible] et [illegible] ~~[illegible]~~ [illegible]

Propositio [illegible]
Sonus [illegible] ~~[illegible]~~ [illegible] et ad latera.
39 [illegible] Sonus propagatur [illegible] [illegible]
[illegible] in medio elastico [illegible] [illegible]
[illegible] [illegible] Sonus [illegible]

... observatione [illegible] sonus [illegible] montem aut obiectum [illegible] quoniam [illegible] parte [illegible] percussa [illegible] propagationem [illegible] ad obiectum [illegible]

[illegible] observationes non [illegible] montem aut in [illegible] partes [illegible] montis [illegible] ...

[illegible]

[illegible] sonus [illegible] differentiae [illegible]

2 Sonus corporis [illegible] ...

[illegible] ...

[illegible] sonus [illegible] ...

[illegible] sonus [illegible] directionem [illegible] ... propagationem [illegible] ... sonantis [illegible] directio [illegible] ...

[illegible] Si sonus [illegible] ... sonus [illegible] propagari [illegible]

Sed omnium harum difficultatum rationem mechanicam exposito a Newtono propagationis [illegible] principio
[illegible] ubi monstravit [illegible] omnem tremorem hic propagatum in medio motum pulsuum [illegible] in
directum, sicut motus ipse propagari debeat lateraliter in spatio immoto post obicem, sufficiat
familiari exemplo undarum in superficie stagnantis aquae ab [illegible] [illegible]
[illegible] ubi pluribus lapidibus in aquam [illegible] excitantur plures concentricorum circu-
lorum series ita tamen ut in spatio aliquo circuli turbati non sint, ubi vero involvuntur tamen [illegible]
[illegible] obicem [illegible] est unica, ac omnibus circulis series nova [illegible] [illegible]
[illegible] habens [illegible] [illegible] potest tamen in [illegible] aere propagari [illegible] vibra-
tio [illegible] [illegible] sicut vibrationes ipsae a [illegible] [illegible] in spatio immoto post [illegible]
[illegible] lateraliter diffundere et propagari [illegible] sonus [illegible] propagatur, [illegible]
tamen [illegible] distincte propagabitur

Ad 3 [illegible] contra [illegible] hanc [illegible] [illegible] adversarii [illegible] [illegible]
propositione 3 capitis septimi dissertationis de luce [illegible] argumentis [illegible]
[illegible] hominis per aerem et propagationem [illegible] per aerem [illegible] [illegible]
[illegible] [illegible] ad sonum [illegible] [illegible] [illegible]
[illegible] sonus propagatur successive

Ad 4 [illegible] sonum [illegible] [illegible] [illegible] [illegible] motus hic pro-
pagatur successive [illegible] [illegible] in [illegible] successive [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] sonum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] sonum necessario [illegible] [illegible] [illegible] propagari [illegible]
[illegible] [illegible]

Ad 5 [illegible] [illegible] soni [illegible] [illegible] [illegible]. [illegible] physici sonum
[illegible] comparaverunt [illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in loco simul et sonus [illegible]
et [illegible] [illegible] [illegible] [illegible] et a tempore [illegible]
inter perceptionem luminis et soni [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] sonum [illegible]
[illegible] [illegible] in [illegible] 1474 [illegible] [illegible] juxta [illegible]
[illegible] [illegible] [illegible] [illegible] juxta Boylaeum [illegible]
[illegible] [illegible] juxta [illegible] et [illegible] [illegible]
[illegible] juxta [illegible] [illegible] juxta [illegible]
[illegible] [illegible] juxta [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] juxta [illegible] [illegible]
[illegible] juxta [illegible] [illegible] [illegible] [illegible]

Ad 6 Hac [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], observat [illegible] sonus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] sibi [illegible] [illegible]
[illegible] [illegible] experimenta [illegible] in diver-
sis terrae locis diversis anni temporibus, et in diversis atmosphaerae constitutionibus [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] vero [illegible]
[illegible] [illegible] [illegible] in [illegible] [illegible] [illegible]

variorum atmosphaerae constitutionem sive aeris [illegible] sonorum intensitatem mutari et tamen corporum [illegible]: sed [illegible] sonum [illegible] [illegible] [illegible]. [illegible] [illegible] experimenta. [illegible] a [illegible] varium in [illegible] [illegible] soni velocitatem producere [illegible] [illegible] admonstrare [illegible] [illegible] variam oportere esse sonorum [illegible]. [illegible] et alia relata experimenta [illegible] addunt alii qui contendunt sonos non aeque intensos [illegible] sonos [illegible] [illegible] diversa [illegible] [illegible]. Sed [illegible] [illegible] [illegible] [illegible] Propositio [illegible]

Soni sive magni sive parvi omnino aequalis pariter eadem velocitate [illegible]

1276 Prob: Sonorum velocitas pendet a [illegible] [illegible] pulsus in medio elastico [illegible] porro haec velocitas est in ratione [illegible] ac subduplicata vis elasticae directe [illegible] inverse, uti probat [illegible]. [illegible] [illegible] in [illegible] sit elasticitas, ac densitas medii [illegible] [illegible] magnitudine [illegible] [illegible] sonorum [illegible] in [illegible] aeris elasticitate ac densitate sive [illegible] soni [illegible] intensitate [illegible] probant etiam experimenta: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in quacumque directione [illegible] [illegible]: [illegible] vero [illegible] esse [illegible] et diversa vis pulveris pyrii non mutare sonorum celeritatem [illegible] magnitudine [illegible] temporis eodem motui et [illegible] [illegible] [illegible] propagatur [illegible]

1277: [illegible] motus vibratorius propter [illegible] [illegible] sonus [illegible] esse celerior [illegible] [illegible] quod [illegible] [illegible] motus [illegible] [illegible] sonum [illegible] ut [illegible] in undis in superficie [illegible] [illegible] a majori corpore excitatae

[illegible] sonus major habere [illegible] vibrationes [illegible] sonus minor [illegible] breviores: [illegible] tamen in sono utroque [illegible] tempore eodem [illegible] [illegible] in [illegible] [illegible] vibrationes sonorum majorum adeoque et soni [illegible] majores erunt celeriores

[illegible] vibratorius motus [illegible] sonus [illegible] [illegible] [illegible] sonus [illegible] remotior. [illegible] soni intentio et remissio [illegible] [illegible] [illegible] a tremorum magnitudine et [illegible] [illegible] hypotesi animadvertis [illegible] [illegible] [illegible] vi motrice [illegible] [illegible] [illegible] [illegible] [illegible] intensiori sono [illegible] [illegible] quod in remissiori [illegible] [illegible] hypotesi major [illegible] particulae sive major [illegible] [illegible] non esse major [illegible] quod in remissiori [illegible] [illegible] [illegible] [illegible] ratio vis motricis [illegible] [illegible] [illegible] sonis [illegible] [illegible] probationis [illegible] [illegible] in prima hypotesi [illegible] in majori [illegible] in minori sono [illegible] [illegible] [illegible] [illegible] in altera hypotesi pariter animadverto tremores [illegible] majores in sono intensiori [illegible] minores [illegible] remissiori eodem plane tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] propagatione [illegible] in medio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sive [illegible] sive breves

[illegible] tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ut observarunt [illegible] et [illegible], [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] vibrationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] tempori [illegible] [illegible] motus [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] sive vibrationes [illegible] [illegible] [illegible] propagatio [illegible] [illegible] [illegible]
motus [illegible] in [illegible] [illegible] in hoc [illegible] [illegible] [illegible] propagatio [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] major [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] experimentis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] propagationem [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ut [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] vibrationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ut vibrationes in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] tempore [illegible] [illegible] spatio [illegible] [illegible]
[illegible] et [illegible] vibrationem [illegible] eodem tempore [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] propagationem [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible] interiores ut [illegible] sive [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] eodem tempore [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] exemplo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] vibrationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] eodem tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] eodem [illegible] tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sive [illegible] sive [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] sive [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] eodem tempore [illegible] [illegible] Ergo
[illegible] [illegible] [illegible] [illegible] [illegible] major [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] natura [illegible]
[illegible] [illegible] observationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] numero [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sive [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Sonus interior pro [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] propositi [illegible]?

[illegible] [illegible] [illegible] [illegible] remissione [illegible] non a maiori intensione sonus [illegible] [illegible] oritur [illegible] a causis [illegible] ex [illegible] maior [illegible] in sono interiori [illegible] [illegible] [illegible] extrahantur et sonus [illegible] [illegible] [illegible] [illegible] maior [illegible] [illegible] [illegible] intensior [illegible] efficit et [illegible] [illegible] [illegible] [illegible] in distantia [illegible] in qua [illegible] [illegible] [illegible] soni remissior [illegible] [illegible] [illegible] [illegible] [illegible] hec autem [illegible] in sono interiori [illegible] maior sit [illegible] [illegible] [illegible] [illegible] sonus interior [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 74

[illegible] Additur vero [illegible] [illegible] [illegible] [illegible] in sono [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ipsa velocitas [illegible] [illegible] [illegible] ratio [illegible] ex [illegible]

[illegible] Chirurgus [illegible] experimentis [illegible] maiorem esse velocitatem [illegible] intensioris [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] temporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sonus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] experimento [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sonus [illegible] intensionis sive remissionis [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Experimentum Mairani [illegible] sonos graves et acutos [illegible] [illegible] [illegible] [illegible] sonus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] graves et acuti soni [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] graves et acuti [illegible] Mairani experimento [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] utrique sono [illegible] [illegible] [illegible] in sono acuto [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Hinc Mairanus in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] propositio [illegible]

Sonus [illegible] [illegible] [illegible] vento [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Prob. [illegible] observationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tempore [illegible] [illegible] [illegible] [illegible] non [illegible] vento contrario [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] Acad. Reg. [illegible] hic [illegible] [illegible] experimentis [illegible] [illegible] [illegible] [illegible] ventus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] velocitati [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] experimentis [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] in [illegible] [illegible] tamen [illegible] experi-
mentis [illegible] cylindros obs-
ervaret quia [illegible] observationis [illegible]
[illegible]
[illegible] experimento [illegible]
[illegible] [illegible]

4 De [illegible]
[illegible]
[illegible]
[illegible]
[illegible] quod observationibus [illegible]

Propositio Sexta

[illegible] propagationis [illegible] est [illegible]

[illegible] Quod soni [illegible] magnitudinem [illegible]
[illegible] intervallo [illegible]
[illegible]
[illegible]
[illegible]
[illegible] velocitas [illegible]

[illegible] [illegible] particulis communicatur [illegible]
[illegible] motu [illegible]
[illegible] magis [illegible]
[illegible] vibrationes [illegible]
[illegible] et sonus propagatur [illegible] particulis
communicatur [illegible]
[illegible] vis majus communicatur [illegible] et oscillationes [illegible]
[illegible] tamen eodem [illegible]
[illegible] particulis [illegible] communicato tamen [illegible]
[illegible]
[illegible] Propositio septima

[illegible] propagatur [illegible]
[illegible]

[illegible] [illegible]
[illegible]
[illegible]
propagatur [illegible]

Prima Particula

[illegible] in [illegible] est naturalis [illegible] sistemate [illegible] sistema [illegible] dissertatio [illegible] complectemur

Dissertatio Prima

[illegible]

2 [illegible] sistema [illegible] mundi machina componitur et [illegible] sistema [illegible] mundi [illegible] mundi [illegible] errorem [illegible] sistemate utroque [illegible]

[illegible] Prima

[illegible] mundi [illegible]

3 [illegible] circulo [illegible] superficiei [illegible] quia vero [illegible] sphera [illegible] varios [illegible] circulos [illegible] mundani sistematis [illegible]

4 [illegible] visibile [illegible] Orizon [illegible] rationalis est circulus [illegible] sphera [illegible] Orizon [illegible] Orizon [illegible] observationes [illegible] in astris [illegible]

5 [illegible] diametro [illegible] Orizon [illegible] nostri Orizontis [illegible] quadrantal [illegible] equator [illegible] circuli [illegible] dicuntur.

6 [illegible] 24 [illegible] astra [illegible] circulos [illegible] paralelos [illegible] astra [illegible] Oriente [illegible] Oriente [illegible] 24 [illegible] sphera [illegible]

[illegible] istud vocatur motus astrorum [illegible] communis [illegible] diurnus circa [illegible] 9

[illegible] perspicuae [illegible] huiusmodi motus [illegible] [illegible] coeli [illegible]

3 [illegible] [illegible] Orientem [illegible] [illegible] occasus astrorum vocatur

4 Puncta immobilia circa quae sphaera omnis revolvitur appellantur poli coelestis sphaerae sive mundi [illegible] conspicitur ad partem [illegible] in meridie [illegible] distat ab Orizonte [illegible] ad nos gradus 45 [illegible] 20 [illegible] [illegible] diurna [illegible] [illegible] aequat [illegible] [illegible] Borea [illegible] [illegible] [illegible] [illegible] 10 constellatione quae [illegible] Arctos [illegible] [illegible] alter polus [illegible] [illegible] nobis [illegible] invisibilis [illegible] dicitur [illegible] Antarcticus a vento [illegible] [illegible]

[illegible] [illegible] [illegible] Orizonte [illegible] [illegible]

5 [illegible] vocatur [illegible] [illegible] trionalis vocatur: [illegible] alterum Orizontis [illegible] [illegible] [illegible] diametro [illegible] [illegible] ad [illegible] partem, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a septentrione [illegible] [illegible] Orizontis [illegible] [illegible] astra oriuntur, alterum Occiduum [illegible] [illegible] partem [illegible] astra occidunt. [illegible] autem [illegible] Orizonti [illegible] communiter [illegible]

6 Circulus [illegible] [illegible] maximus est inter caelestes [illegible] astra [illegible] et [illegible] [illegible] mundano [illegible] centrum [illegible] [illegible] [illegible] polos [illegible] [illegible] mundi [illegible] mundano [illegible] in suo [illegible] quae dicuntur [illegible] [illegible] [illegible] et in loco quolibet tantum semper distat a Zenit [illegible] [illegible] [illegible] quantum [illegible] [illegible] visibilis [illegible] [illegible] supra [illegible] [illegible]

7 Circulus qui transire concipitur per mundi polos [illegible] [illegible] [illegible] dicitur meridianus [illegible] [illegible] Orizontem secat [illegible] [illegible] [illegible] ubi sol [illegible] [illegible] media dies est [illegible] [illegible] [illegible] media nox, [illegible] [illegible] inferiori: [illegible] [illegible] [illegible] hemisferio orientale, [illegible] [illegible] [illegible] ortus, [illegible] [illegible] [illegible] a Zenit [illegible] pro variis terrae locis; ita tamen [illegible] [illegible] meridiani [illegible] [illegible] in [illegible] mundi [illegible]

8 [illegible] [illegible] [illegible] Orizontis [illegible] [illegible] meridiani [illegible] [illegible] [illegible] [illegible] omnium [illegible] [illegible] [illegible] [illegible] [illegible]

9 [illegible] ex dictis Orizon pro vario terreno [illegible] sit semper [illegible] [illegible] [illegible] utriusque Orizontis et aequatoris [illegible] mutua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aequator [illegible] [illegible] [illegible] [illegible] sphaera [illegible] si aequator [illegible] Orizonte [illegible] positio sphaerae dicitur [illegible] [illegible] si [illegible] [illegible] positio sphaera dicitur obliqua [illegible] [illegible] positionis sphaerae [illegible] [illegible] motus [illegible] [illegible] [illegible]

10 [illegible] sphaerae positione astra omnia [illegible] [illegible] [illegible] [illegible] [illegible] Orizonti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] hemisferio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] positione Orizon [illegible] [illegible] [illegible] [illegible] omnes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sphaera positione [illegible] [illegible] [illegible] [illegible] [illegible]

9. In parallela parte inferiore, ut sunt [illegible] conditione [illegible] habitant ortus [illegible] astronomi [illegible] aequatori [illegible] medium [illegible] parallelorum [illegible] Orizonti [illegible] semper apparebunt, [illegible] positio sphaerae [illegible] tore et orizonte coincidentibus [illegible]

10. Secundo in sphaera obliqua, [illegible] est orizon [illegible] appellamus [illegible] Orizonti [illegible] interior [illegible] aequatore [illegible] orizonte conspiciuntur [illegible] aequatori [illegible] parallela [illegible] aequatori [illegible] variationis tempora apparebunt [illegible] polo distabunt. [illegible] occurrunt [illegible] [illegible] semper videri potuerunt: si vero [illegible] tionis [illegible] [illegible] ipsius [illegible] quae semper latebunt [illegible] aequatori propiores [illegible] [illegible] sphaerae situ ad omnes [illegible] [illegible] aequatore [illegible]

[illegible]

4.

[illegible]

Primi [illegible]

[illegible] in Oriente [illegible] solis [illegible] quinque [illegible]
[illegible] motum, quo modo in Boream modo in Austrum [illegible]
[illegible] motus trepidationis [illegible] motum quo modo in Oriente [illegible]
[illegible] motus [illegible]
[illegible] puncta [illegible] motum [illegible]
[illegible] motum [illegible]
[illegible] in Oriente [illegible]
[illegible] motus hic secundus appellatur [illegible]
[illegible] ad [illegible] pro [illegible] ad hanc rationem pertinent.

3 [illegible] in [illegible] aequatore [illegible]
[illegible] quatuor [illegible]
[illegible] gradibus [illegible] et dimidio [illegible]
[illegible] aequatore [illegible] gradibus [illegible]
[illegible] dimidio [illegible] aequatore [illegible]
[illegible] anni [illegible]
[illegible] qui [illegible] punctis [illegible]
[illegible] aequatore [illegible] utrumque [illegible]
[illegible] dimidio. Unde est [illegible] per orbitam solis [illegible]
[illegible] plano [illegible] aequatoris [illegible]
[illegible] motus [illegible]
[illegible]
[illegible] aequatore [illegible] puncta [illegible]
[illegible] anni motum [illegible] motu diurno [illegible]
efficit noctem aequalem.

4 [illegible] motu diurno [illegible] diebus [illegible]
[illegible] motum [illegible] semper [illegible]
[illegible] sol [illegible]
[illegible] declinationem [illegible]
[illegible] et dimidio [illegible] tropici [illegible]
[illegible]
[illegible] tropicos [illegible] puncta [illegible]
[illegible] aequatore [illegible]
aequatoris [illegible] temporum [illegible]
motum diurnum pro [illegible] diversis parallelis [illegible]
[illegible]
[illegible]
[illegible] diversis [illegible] motum diurnum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] exhibet sequens tabula

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] his respectivis signis designari

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] luna [illegible] in omnibus planetis; nec stationes et [illegible]

[illegible]

[illegible]

[illegible]

[illegible] praedictus [illegible] a sole recedat [illegible]

[illegible] et Venerem aut Mercurium [illegible]

[illegible] medius sit inter Saturnum [illegible]

[illegible] Conjunctione geocentrica lunae [illegible]

[illegible]

[illegible] quae vero [illegible]

[illegible] sive [illegible]

[illegible] quod utraque [illegible]

[illegible]

[illegible] et rationalis [illegible] divisio in signa [illegible]

[illegible] tauro [illegible]

[illegible]

[illegible] sive [illegible] sive [illegible]

[illegible] centro [illegible]

[illegible] observationis [illegible] occultatione [illegible]

[illegible] objecti [illegible]

[illegible] observator [illegible]

[illegible] ob meridiani [illegible]

[illegible] distantia vera [illegible]

[illegible] distantia [illegible] a centro telluris [illegible]

[illegible] objecti a centro telluris, parallaxis eo maior erit, quo maior erit sinus [illegible]

[illegible] maxima [illegible]

[illegible] distantia [illegible] objecti [illegible] minor [illegible]

[illegible] distantia [illegible]

22 [illegible] error [illegible] refractione [illegible] in transitu [illegible]

[illegible] indicio non [illegible]

[illegible] refractione, [illegible] error [illegible]

[illegible] quam ad [illegible] determinanda [illegible]

[illegible] correctio observationum [illegible]

De [illegible] mundi [illegible]

23 [illegible] astronomica [illegible] omnibus philosophis [illegible]

[illegible] anima mundi [illegible] universo [illegible]

[illegible] ratione [illegible] astra [illegible]

[illegible] admirationem [illegible]

[illegible] animadvertimus [illegible] anima mundi [illegible]

[illegible] astronomia [illegible] observationibus [illegible]

[illegible] observationes astronomicae [illegible] mundi [illegible]

24 [illegible] observationes astronomicae [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] orbite [illegible] ad [illegible] M [illegible] ad [illegible] X L [illegible] distantia [illegible] in quadratura [illegible]

orbita [illegible] non [illegible]

Bene vero [illegible] Mercurii in [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

22 [illegible] astronomi[illegible] [illegible]

[illegible] ratione [illegible] natura [illegible]

[illegible]

[illegible] astronomicae [illegible] Determinemus [illegible]

[illegible] Ptolemaeum [illegible] Aristarch[illegible] [illegible] in centro universi [illegible]

[illegible] characteribus propriis [illegible]

[illegible]

[illegible] systema mundi [illegible]

[illegible] cometae [illegible]

[illegible] in ratione [illegible]

[illegible]

[illegible] in [illegible] Ptolemaeo [illegible] calor[illegible] influxu[illegible] [illegible]
[illegible] sive [illegible] motum [illegible]
[illegible] omnes [illegible] natura [illegible]
[illegible] motu [illegible]
[illegible] inferioribus [illegible]
[illegible] motus [illegible]

[illegible] 2
[illegible]
[illegible]

[illegible] necessari[illegible] [illegible]
[illegible] materia [illegible]
[illegible] motus [illegible] minima [illegible]
[illegible] motus [illegible]

Necessarium est [illegible] 2)
[illegible]
[illegible] homines [illegible]
[illegible]
[illegible] omnino [illegible]
[illegible]
[illegible]

2. [illegible] Ptolemaeo [illegible]
[illegible] motus [illegible]
[illegible]
[illegible]
[illegible] 3
[illegible]
[illegible] motu [illegible]
[illegible]

3. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible]
[illegible] [illegible] [illegible] amore [illegible]
[illegible]
[illegible]
[illegible]

3. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

3. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in [illegible] in [illegible]
[illegible] in [illegible]
[illegible]
[illegible] contra [illegible]

30 [illegible]
[illegible] amore [illegible]
[illegible]
[illegible] in [illegible]
[illegible]
[illegible] Ex a primo [illegible]
[illegible]
[illegible] 66 [illegible] medio [illegible]
[illegible] medio continet [illegible]
[illegible]
[illegible]
[illegible] quod [illegible]
[illegible] 23 [illegible]
[illegible]
[illegible] medio [illegible]
[illegible]
[illegible] 23 [illegible]

[illegible] ab aequatore [illegible] 29 [illegible] Borealem [illegible]

[illegible] in medio [illegible]

[illegible]

[illegible] in primo [illegible]

[illegible] aequatore [illegible]

[illegible] in medio [illegible]

[illegible]

[illegible] in primo [illegible] aequatore [illegible]

[illegible] Borealem

3 [illegible] et temperatem [illegible]

[illegible] Borealem [illegible]

[illegible] in hemisphaerio [illegible] Borealem [illegible]

[illegible] aequatore [illegible] in partes aequales [illegible]

[illegible] in partes inaequales [illegible]

[illegible]

[illegible]

lis qui sunt in eius festo tractata

[illegible]

[illegible]

[illegible]

[illegible] a oppositione [illegible]

a conjunctione ad oppositionem;

[illegible]

[illegible] mortuus et [illegible] [illegible] [illegible] [illegible] opponitur [illegible] [illegible] [illegible] majorem [illegible] [illegible]

[illegible]

[illegible]

... ab Occidente in Orientem ... accidit circiter 25200 ... sidus videri ... [illegible]

... [illegible] ... Oriente ... [illegible]

... hoc anno experientia ... [illegible]

3 [illegible]

[illegible]

44 Prop. [illegible]

[illegible]

[illegible] ... pro ... stabit ... [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 3.

[illegible]

[illegible] immobile videtur; [illegible]

[illegible] ut pendent nobis apparebit, [illegible]

[illegible] verticales. [illegible]

[illegible]

[illegible] abjecta sunt; [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] oltalit [illegible] rotatio ipsa [illegible]

[illegible]

1. [illegible] corpora terrestria [illegible]
[illegible]
in superficie interiore

2. [illegible]

3. [illegible] rotari possint
[illegible]

4. Observo [illegible]

[illegible] projiciantur, et [illegible]
[illegible] motus [illegible]
[illegible]
[illegible]
[illegible]
projecta versus [illegible]

[illegible] aequivalent distantiis a [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] plures [illegible]
[illegible]
[illegible]

2 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] habent [illegible]

2 [illegible] navis [illegible] in navi [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
1 [illegible]
[illegible]
[illegible] non [illegible]
[illegible]
53 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] motus omnes [illegible] sunt [illegible] nobis sensibilis [illegible]
[illegible]
[illegible] ab anima sive a divina mente [illegible]
[illegible]
[illegible] aeternae [illegible]
[illegible]

5 [illegible] contra [illegible]
[illegible]

53 [illegible]
[illegible]

[illegible]

... adulterat, [illegible] ...

[illegible] Argentio

[illegible] ... inter orbitas Veneris et Martis ... [illegible]

[illegible]

... Germania [illegible] ...

[illegible]

[illegible]

[illegible]

30 [illegible]

[illegible]

[illegible] sive [illegible]

[illegible] Astronomi[illegible]

5. [illegible]

[illegible]

[illegible]

[illegible]

[illegible] pendula [illegible] oscillare et tempore [illegible] [illegible] pendulum oscillando [illegible] non esse [illegible] [illegible] sive in [illegible] sive in [illegible] octo minor [illegible] major in [illegible]

[illegible]

[illegible] non cessat [illegible]

[illegible] 100 [illegible]

[illegible]

4. [illegible]

[illegible] observationibus [illegible]

5. [illegible] penduli [illegible]

6. [illegible]

[illegible] in [illegible] aequatoris [illegible] mechanicâ [illegible]

[illegible] quantitate [illegible] experimentis [illegible]

[illegible] oscillationes [illegible]

3 [illegible]

res in orologiorum partibus inducere [illegible]

[illegible]

[illegible] longitudine [illegible]

[illegible]

[illegible] ad [illegible]

[illegible]

[illegible] observatum et [illegible] servaturi [illegible]

[illegible] determinaverunt longitudinem [illegible]

[illegible] oscillationes [illegible]

[illegible] longitudines [illegible] in [illegible]

[illegible] longitudinis penduli [illegible]

sed ut singulis aliis casibus respondeat.

[illegible] pendula [illegible]

[illegible] potest [illegible] gravare [illegible]

[illegible] pendula [illegible] in [illegible] aequatorem [illegible]

[illegible] oscillaret [illegible]

[illegible] diversa [illegible] pendula [illegible] ad aequatorem [illegible]

[illegible] partibus [illegible] in [illegible] aequatori [illegible]

[illegible]

[illegible] in [illegible]

[illegible]

[illegible] parte [illegible]

[illegible] longitudines [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ad [illegible]

[illegible] ad [illegible] aequatorem [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] aequatori [illegible]

[illegible]

[illegible] Parigi [illegible]

[illegible] observata [illegible]

[illegible] Diversi [illegible] in locis [illegible]

[illegible]

3 [illegible]

Pore [illegible]

5 [illegible]

[illegible]

adeoque ~~[illegible]~~ [illegible] inaequalitates [illegible] satis et [illegible] producendae [illegible]

Ad 1. [illegible] corpori [illegible] in [illegible] [illegible] ad [illegible] [illegible] est ut [illegible]
[illegible]
[illegible]

Ad 2. [illegible] densitas [illegible] major [illegible] accuratis barometris [illegible] est [illegible]
[illegible]
[illegible]
[illegible] observatur

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible] diurno motu [illegible] producta [illegible] et [illegible] densitas [illegible]
[illegible] inaequalitas [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] diurno motu [illegible]
[illegible] plura [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] motu [illegible]

[illegible]
[illegible]
[illegible]
[illegible] motu [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] decurrit lunam secundum [illegible] rapuerit [illegible] et recta [illegible]
[illegible] motu annuo [illegible] ad [illegible] annui [illegible]
[illegible] lunam apud in orbitis [illegible]
[illegible] in lumen [illegible] et directione [illegible]
[illegible] aberratione [illegible] secundum [illegible]
[illegible] directione [illegible] in orbitis [illegible]
[illegible] ad directione [illegible] in loco [illegible] aberratio [illegible]
[illegible] apparens [illegible]
[illegible] annui motus [illegible] et distantia [illegible] aberration
[illegible] velocitas luminis [illegible] constante [illegible]
[illegible] annui telluris [illegible] moveri [illegible]
[illegible] telluris [illegible] in [illegible] orbita [illegible] motu [illegible]
[illegible] intelligitur [illegible] motu apparente [illegible]
[illegible] tellure in [illegible] apparebit [illegible]
[illegible]
[illegible] vera [illegible] prolongata [illegible]
[illegible] vera [illegible]
[illegible] constante [illegible]
[illegible] inclinatione [illegible]
[illegible] apparentia [illegible] omnes [illegible]
[illegible] possit [illegible]
[illegible] apparet [illegible]
[illegible] quantitate [illegible]
[illegible] observationibus [illegible]
[illegible] ecliptica [illegible] ecliptica plano, et [illegible]
[illegible] directe [illegible]
[illegible] ecliptica [illegible] et [illegible] apparet [illegible]
[illegible] constat [illegible] annuas et [illegible]
[illegible] observationes annuas [illegible]
[illegible] observationes annuas [illegible]
[illegible] aberratio [illegible] luminis [illegible] motus telluris annuus [illegible]
[illegible] ascendens

[illegible] aberrationem [illegible]
[illegible] solis [illegible]
[illegible] a sole [illegible]
[illegible]
[illegible]
[illegible]
[illegible] aberratio [illegible]
[illegible]
[illegible]

[illegible] esse potiunt [illegible] [illegible] dal [illegible]
[illegible] observari deberent [illegible] compositione [illegible] [illegible]
[illegible] nulla [illegible] nulla [illegible]
2 Observatae [illegible] [illegible] [illegible]
[illegible] rationes
[illegible]
[illegible]
[illegible]
[illegible] orta [illegible] motu [illegible]
[illegible] orta a motu [illegible]
[illegible]
Orbiculo [illegible] [illegible] [illegible] [illegible] corpori [illegible]
[illegible] proprii [illegible]
[illegible]
[illegible]
[illegible]
[illegible] ad [illegible]
[illegible]
[illegible] parte [illegible] ratio [illegible]
[illegible]
[illegible] a motu [illegible]
[illegible]
[illegible] nulla [illegible] ad [illegible]
[illegible] aequatore [illegible]
[illegible] nullae [illegible] rationes [illegible] diurnae [illegible]
[illegible] corporis [illegible]
[illegible] annuae parallaxis [illegible]
[illegible] annuae parallaxis [illegible]
[illegible] aberrationes [illegible]
[illegible] ad propriet [illegible] ad
[illegible] contra [illegible] annuale parallaxis [illegible]
[illegible] annuae [illegible] aberrationes [illegible]
[illegible] nostra [illegible]
[illegible] annuae [illegible] aberrationi [illegible]
2 contra [illegible] non [illegible] majorem [illegible]
[illegible]
[illegible]
[illegible] massa [illegible]
[illegible]
[illegible]
[illegible]
[illegible] major motu [illegible]
[illegible]

[illegible] et gravitas [illegible] quod [illegible]
[illegible] retractio motui [illegible]
[illegible] possibile
[illegible]
[illegible] quod [illegible] attractionis [illegible]
[illegible]
[illegible] astronomici [illegible]
[illegible] motui [illegible]
[illegible]
[illegible]
[illegible] maximus [illegible] color [illegible]
[illegible] colores [illegible]
[illegible]
[illegible]
[illegible]

Responsio [illegible]

[illegible] astronomicus [illegible]
[illegible] possent [illegible]
[illegible] philosophia [illegible] per [illegible] transpositiones [illegible]
[illegible] physica [illegible]
[illegible]
[illegible]
[illegible] Veritas [illegible] physica
[illegible] quod [illegible]
[illegible]
[illegible]
[illegible]
[illegible] astronomia [illegible]
[illegible]
[illegible]
[illegible]

Dubitabis [illegible]
[illegible]
[illegible]
[illegible] definitiones [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] sive veras sive apparentes [illegible]

[illegible]

Porro [illegible]

[illegible]

2 Orbita lunae plurimum differt ab ellipsi [illegible]

3 [illegible] orbita [illegible]

4 [illegible] orbita [illegible] ellipsi [illegible]

[illegible] pro qualibet revolutione lunae:

§ [illegible]

[illegible]

[illegible] 140 [illegible]

[illegible]

[illegible] quod nodos et [illegible] haberent non errantes [illegible]

[illegible]

[illegible] cometae [illegible] solaris [illegible]

[illegible]

[illegible] directione [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Solem [illegible] Solis [illegible]

Prop. [illegible] Solem [illegible]

[illegible] gravitatis [illegible]

[illegible]

[illegible] Porro quae [illegible]

[illegible] Solis [illegible]

[illegible] Veneris [illegible]

[illegible]

[illegible] circa commune centrum gravitatis [illegible] revolventur [illegible] actionis ac attractionis [illegible] servabunt [illegible]

[illegible] mutuae attractionis [illegible]

[illegible] Planetae omnes et Cometae [illegible]

[illegible] temporibus proportionales [illegible]

[illegible] mutuae attractionis ad Solem [illegible] commune [illegible] planetae ac Cometae [illegible]

[illegible] quadrato [illegible]

[illegible] demonstravi [illegible] projectionis et attractionis mutuae [illegible]

[illegible] motu [illegible]

[illegible] motum [illegible] circa commune [illegible]

[illegible] projectionis et attractionis mutuae [illegible]

[illegible] directione [illegible]

[illegible] contrariae [illegible] projectionis [illegible]

[illegible] utrique contrariis [illegible] erit [illegible]

[illegible]

[illegible] directione contraria [illegible]

[illegible] attractionem [illegible]

[illegible] ratione [illegible] Lunae ad [illegible]

[illegible] circa centrum commune propriae gravitatis [illegible]

[illegible] Lunae [illegible] attractionem [illegible]

[illegible] proportionales [illegible]

[illegible]

[illegible] Lunae [illegible]

[illegible] ac commune [illegible]

[illegible] a commune centro [illegible]

[illegible] Solis [illegible] ratione [illegible] Lunae [illegible]

[illegible] mutuae attractionem [illegible]

[illegible] circa commune centrum gravitatis [illegible]

[illegible] gravitatis [illegible]

[illegible] circa commune [illegible]

[illegible] Solis [illegible]

[illegible] attractionem [illegible]

[illegible] circa commune centrum [illegible]

[illegible]

[illegible]

[illegible] in motu circa [illegible]

[illegible]

[illegible] gravitas [illegible] nondum omnino [illegible]

[illegible]

[illegible] per [illegible]

[illegible]

[illegible] systematis [illegible] universi [illegible]

[illegible]

[illegible] Cortes. [illegible]

[illegible]

[illegible] universi corpora [illegible]

[illegible] corporis [illegible] motus [illegible]

[illegible]

[illegible]

[illegible] methodo explicantur [illegible]

[illegible] motus [illegible]

[illegible]

[illegible] demonstrativo [illegible]

[illegible] motu [illegible] corporis [illegible]

[illegible] attractionem [illegible]

[illegible] sufficiens [illegible]

[illegible] motus [illegible]

[illegible]

2 [illegible] motus [illegible] corpora [illegible]

[illegible] motu [illegible]

[illegible] gravitatis [illegible]

[illegible] motus [illegible]

[illegible] motus utriusque [illegible] corporis [illegible]

[illegible] motus rotationis [illegible]

[illegible]

[illegible] nondum tamen motus utriusque [illegible]

[illegible] communis gravitatis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] exprime [illegible]

[illegible]

[illegible] planetes [illegible]

[illegible]

[illegible]

[illegible] systematis solaris [illegible]

[illegible]

[illegible] attractionum [illegible]

[illegible]

[illegible] commune [illegible] gravitatis [illegible]

[illegible] attractionibus [illegible] systematis [illegible]

[illegible] commune [illegible] gravitatis [illegible]

[illegible] vis attractivae [illegible]

[illegible] systematis solaris [illegible]

[illegible]

[illegible] attractionem [illegible] distantia [illegible] a sole

[illegible] ad attractionem [illegible]

[illegible] distantia [illegible]

[illegible]

[illegible]

[illegible] determinata in puncto [illegible]

[illegible]

[illegible] omnes eodem indicant [illegible]

[illegible] directione [illegible]

[illegible] directionem [illegible]

[illegible] in minuta [illegible]

[illegible] in oppositione et quadratis [illegible]

[illegible] gravitatis [illegible]

[illegible] tendat [illegible]

[illegible] tendat in puncto [illegible]

[illegible]

[illegible] innotescat [illegible]

[illegible]

Primo [illegible] quadraturis [illegible] lunae [illegible]

[illegible] quadraturis [illegible] lunae [illegible] quadraturis ad syzygias [illegible]

[illegible] syzygiis ad quadraturas [illegible] quadraturis ad syzygias [illegible]

[illegible] syzygiis [illegible]

[illegible] quadraturis [illegible]

[illegible] syzygiis ad quadraturas [illegible]

[illegible]

[illegible] lunae [illegible]

[illegible]

[illegible] lunae in quadraturis [illegible]

[illegible] quadraturis [illegible]

[illegible] syzygiis [illegible]

[illegible] quadraturis [illegible]

[illegible] quadraturas [illegible]

[illegible] quadraturis [illegible] quadraturis [illegible]

[illegible] lunae [illegible] syzygiis [illegible]

[illegible] syzygiis [illegible]

[illegible] orbita lunae [illegible]

[illegible]

[illegible] ordin[illegible] [illegible] pro [illegible] 2

immutant

47 [illegible] ergo [illegible] ellipsis, quod [illegible] area [illegible] ut in [illegible]

[illegible] ellipticae [illegible] describet [illegible]

[illegible] habere vim tendentem [illegible] ad [illegible]

[illegible] potest [illegible] similiter et [illegible] describere [illegible] orbi[illegible]

[illegible] debet et ad [illegible]

[illegible] quod in [illegible] in linea [illegible] [illegible]

[illegible] tangentialis habeat [illegible] quod vi propria [illegible]

[illegible] distantia [illegible] similiter [illegible] abs [illegible]

[illegible] ellipsi [illegible] [illegible] ellipsis [illegible]

[illegible] orbitis [illegible] in sphaera [illegible] apsides [illegible] quod [illegible]

[illegible] ratio reciproca [illegible] duplicata [illegible]

[illegible] apsides [illegible]

[illegible] describeret [illegible] orbitam [illegible] in qua apsides [illegible] quod in ellipsi [illegible]

[illegible] ellipsis [illegible] reciproca [illegible]

[illegible] vero vidimus vires [illegible] addere aliquid gravitati [illegible]

[illegible] gravitas [illegible] ratio [illegible]

gravitantur [illegible] ut si [illegible] majore [illegible] in [illegible]

[illegible] duplicata [illegible] majori [illegible] ad [illegible] distantiam [illegible]

[illegible] quadratum: [illegible] in utraque distantia [illegible] gravitatis [illegible]

[illegible] in singulis quadraturis [illegible] gravitas [illegible] distantia [illegible]

minori, et [illegible] quadrat[illegible] [illegible] ratio [illegible]

[illegible] major [illegible] quadrat[illegible]

[illegible] major [illegible] quadrat[illegible] [illegible]

[illegible] major [illegible] crescunt in [illegible]

[illegible] in [illegible] gravitatis [illegible] duplicata [illegible]

[illegible] gradus 35 [illegible] quadraturis [illegible] et apsides [illegible] consequentia [illegible]

[illegible] et apsides orbitae [illegible]

[illegible] gravitatis [illegible] circa [illegible] [illegible]

[illegible] ratione [illegible] ratio [illegible] distantia [illegible]

[illegible] et apsides [illegible] quod in ellipsi [illegible]

[illegible] ellipticae videantur progredi.

[illegible] apsides [illegible] gradus 35 [illegible]

[illegible] a [illegible]

[illegible] gravitatis [illegible]

[illegible] gravitatis [illegible] in ipsis quadraturis; et [illegible] maximum in [illegible]

[illegible]

2 [illegible] parando [illegible] in omni lunae revolutione.
[illegible] ut [illegible] sit major [illegible] ad decrementum sit [illegible]
[illegible] hinc [illegible] quod incrementum [illegible]
[illegible] hinc [illegible] quadraturis [illegible] incrementum [illegible]
[illegible] respondet simplici distantiae lunae a Terra in syzygiis [illegible] decrementum [illegible]
[illegible] distantiae [illegible] revolutione [illegible] proxime [illegible]
[illegible] cum [illegible]
[illegible]
[illegible] in syzygiis [illegible] duplicatae distantiae lunae a Tellure [illegible]
[illegible], quod habetur in utraque syzygia [illegible] summae distantiae lunae a Tellure in
syzygiis, et incrementum [illegible] quadraturis [illegible] simplici summae distantiae
lunae a Tellure in quadraturis, et in quadraturis [illegible] distantiae [illegible]
[illegible] summae lunae a Tellure in syzygiis [illegible] in syzygiis [illegible]
[illegible] lunae a Tellure in quadraturis [illegible]
[illegible] in quadraturis summae distantiae lunae a Tellure in [illegible]
[illegible] summae distantiae lunae a Tellure in syzygiis et [illegible] in [illegible]
[illegible] apsidum [illegible]
[illegible] incrementum [illegible] differentia [illegible] apsidum [illegible]
[illegible] post unam revolutionem lunae [illegible] contra [illegible] apsi-
[illegible] quadraturis [illegible] minimum et incrementum maximum differentia
[illegible] apsidum post unam revolutionem [illegible]
[illegible] revolutione videntur apsides [illegible]
[illegible] summae simplicis distantiae [illegible] in quadraturis [illegible]
[illegible] distantiae [illegible] in syzygiis [illegible] apsidum post [illegible]
[illegible] apsides [illegible] a quadraturis ad syzygias [illegible]
[illegible] a syzygiis ad quadraturas [illegible] inaequalitate [illegible]
[illegible] inaequalitate [illegible]
[illegible] apsides lunae [illegible]
[illegible] syzygiis [illegible] quadraturis [illegible] a quadraturis ad syzygias [illegible]
[illegible] a syzygiis ad quadraturas [illegible]
[illegible] apsides in syzygiis [illegible] quadraturis [illegible] quadraturas et syzy-
[illegible] syzygiis [illegible] quadraturis [illegible]
[illegible] ratione [illegible] revolutionem [illegible]
[illegible] a quadraturis ad syzygias [illegible]
[illegible] a syzygiis ad quadraturas [illegible] decrementum [illegible]
ad syzygias [illegible] inaequalitas [illegible] apsidum [illegible]
ratione [illegible] in [illegible] revolutione
[illegible] lunares apsides [illegible] excentricitate [illegible]
[illegible] distantiae maximae et minimae lunae a Tellure [illegible]
[illegible] quadraturis [illegible]
ratio [illegible] duplicata distantiae [illegible] summae distantiae [illegible]
[illegible] in distantia majori a Tellure [illegible] in [illegible]
[illegible] utraque [illegible]
[illegible] solis [illegible]

[illegible]

[illegible] circa primarios [illegible] irregularitates [illegible] quae in [illegible] occurrunt [illegible] attractionem Newtonianam explicantur [illegible] ipsas produci affirmamus [illegible] philosophandi [illegible] admittere [illegible] solis attractio in primarios ac secundarios [illegible] sufficit [illegible] circa primarios [illegible] philosophandi [illegible] ipsos [illegible]

[illegible] differentia virium [illegible] primarios [illegible] secundarios [illegible] secundarios [illegible] circa primarios [illegible]

[illegible] differentia [illegible] in primarios ac secundarios [illegible] ad hoc [illegible] differentia [illegible] id [illegible] vero [illegible] attractio [illegible] est [illegible] distantiae [illegible] a sole [illegible] duplicata differentia distantiae [illegible] telluris [illegible] a sole [illegible] distantia [illegible] in [illegible] partibus [illegible] similiter [illegible] quadratum [illegible] attractio prodibit [illegible] ad utroque differentia virium solis [illegible] telluris [illegible] telluris [illegible] potest [illegible] secundariis [illegible]

[illegible] inaequalitates secundariorum [illegible] secundario [illegible] in parte [illegible] solis actio [illegible] solis [illegible] solis [illegible] in parte orbitae [illegible] actione solis [illegible] in parte [illegible] secundarius [illegible] parte orbitae [illegible] secundarius [illegible]

Differentia virium solis [illegible] secundarii [illegible] secundarius [illegible] virium solis in primarium ac secundarium [illegible] vis secundarii [illegible] primario [illegible] solis [illegible] secundario [illegible] actio solis in secundarios [illegible]

[illegible] differentias [illegible] in primarium [illegible] actione solis [illegible] quadraturis [illegible] in syzygiis [illegible] secundarii [illegible] actionis solis [illegible] quadraturis [illegible] syzygiis [illegible]

Sed potest spectato gravitatis incremento [illegible] quod ab actione solis oritur in hac
[illegible] fieri debere ipsum minus [illegible] in [illegible]
[illegible] primario [illegible] orbitae [illegible]
[illegible] a quadraturis discedere [illegible] augetur ab actione solis [illegible]
[illegible] interiore [illegible]
[illegible] major [illegible] in his [illegible]
[illegible] orbitae factae in quadraturis [illegible]
[illegible] ad directionem vis centripetae sive gravitatis [illegible]
[illegible] spectato [illegible]
[illegible] in primario [illegible] in quadraturis [illegible]
[illegible] minor [illegible] fieri debere in quadraturis [illegible]
[illegible] per quadraturas [illegible] in quadraturis [illegible]
[illegible]
[illegible] ratione [illegible] distantiae hac posita lege dimidium proveniret [illegible]
[illegible] Alembertius [illegible]
[illegible] adhibet [illegible]
[illegible] in primis difficultatem [illegible]
[illegible] solutione [illegible]
[illegible]
[illegible] orbitae [illegible] dimidium [illegible] proxime [illegible]
[illegible] plures ostenderunt [illegible]
[illegible]
[illegible]
[illegible] Alembertius [illegible]
[illegible] Newtoni methodo [illegible]
[illegible] quod confirmavit [illegible] inaequalitatibus lunae [illegible]
[illegible] motus annuus lunaris [illegible]
[illegible] primis [illegible] secundis [illegible]
[illegible] primus [illegible] secundis [illegible]
[illegible]
[illegible] motus [illegible]
[illegible] post [illegible]
[illegible] progrediuntur [illegible] orbitae [illegible] 2
[illegible]
[illegible]
[illegible] maxima [illegible]
[illegible] aucta [illegible] ab quadraturis [illegible]
[illegible] quadraturis [illegible]
[illegible] centripetae [illegible] quadraturis [illegible]
[illegible]
[illegible]

[illegible] Atyphest [illegible] moveat [illegible]

[illegible] et [illegible]

[illegible] plan[etis] [illegible] et [illegible]

[illegible]

nodi [illegible] ad [illegible]

[illegible] mutato [illegible] orbite [illegible]

maxima sit [illegible] nodi in [illegible] minima [illegible] nodi [illegible]

[illegible]

[illegible]

[illegible] planeta [illegible] Solis [illegible]

[illegible] moveat [illegible]

[illegible] distantia [illegible] positione [illegible]

[illegible] in [illegible] Solis [illegible]

[illegible]

[illegible]

[illegible] ad [illegible]

[illegible]

[illegible] orbita [illegible]

[illegible]

[illegible] inaequalitates [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Saturni [illegible]

[illegible]

[illegible]

[illegible] in motu planetae [illegible] Solis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] distantiarum [illegible]

[illegible]

[illegible] in [illegible]

[illegible] in [illegible]

[illegible] Veneris [illegible] orbitis planetae [illegible]

[illegible]

[illegible] major [illegible]

[illegible] Saturni [illegible]

[illegible] planetae [illegible]

[illegible]

[illegible] in planeta superioris [illegible] ad absides inferioris [illegible]

[illegible] [illegible] superioris, [illegible] plangata [illegible] positiones [illegible]

[illegible] quod [illegible] a quolibet inferiori [illegible] actione [illegible]

[illegible] habeat [illegible] absidum [illegible] et [illegible]

[illegible] inclinationis [illegible]

[illegible] inaequalitates in planeta inferiori [illegible]

orbita absidum [illegible] quod planeta [illegible]

[illegible] contra [illegible] quantitate [illegible] sed [illegible]

[illegible] periodi [illegible] inaequalitates [illegible]

[illegible] fiat iuxta ordinem litterarum [illegible]

[illegible] superioris, planeta [illegible] inferior planeta [illegible]

[illegible] planeta superior [illegible] inferiori [illegible]

[illegible] immutatio velocitatis [illegible]

inferioris integrae superioris revolutionis non [illegible]

[illegible] superioris [illegible] orbita inferioris [illegible]

ad [illegible] fit planeta superior [illegible] propior inferiori. [illegible]

[illegible] superioris velocitatis [illegible]

[illegible] tempora [illegible]

[illegible] orbita [illegible] et [illegible] periodica [illegible]

[illegible]

et tempora periodica. [illegible] quod inaequalitates [illegible] positivae [illegible] negativae [illegible]

[illegible]

[illegible] secundus [illegible]

[illegible] actione Veneris [illegible]

~~[illegible]~~ actione [illegible] superioris [illegible]

[illegible] actione [illegible]

[illegible] superioris [illegible]

[illegible] hic [illegible] tamen [illegible]

[illegible] mutationes [illegible] orbita [illegible]

[illegible] non [illegible]

[illegible] actione [illegible] planetae [illegible] inferioris [illegible] actione [illegible]

[illegible] orbita superioris planetae [illegible]

[illegible] orbita [illegible]

[illegible] [illegible]

[illegible] superioris [illegible] quantitate [illegible] non [illegible] directe vel [illegible]

[illegible] superioris planetis [illegible] sed ex quantitate [illegible]

[illegible] apparet [illegible]

[illegible] quod [illegible]

[illegible] contra [illegible]

[illegible] proportione [illegible]

[illegible]

[illegible] actione [illegible]

[illegible] actione [illegible] superioris [illegible]

[illegible] planeta inferior [illegible]

[illegible]

[illegible] actione [illegible]

[illegible]

[illegible]

[illegible] loca [illegible]

[illegible] actione Veneris [illegible]

[illegible] actione [illegible]

[illegible] actione [illegible]

[illegible] actione [illegible]

[illegible] attractione [illegible]

[illegible]

[illegible] determinare omnes observationes [illegible]

[illegible] de cometis [illegible]

[illegible] resultat [illegible]

[illegible] hoc loco [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] effectus [illegible] actionis non [illegible]

[illegible] astronomi [illegible] cometa [illegible] anno [illegible]

[illegible]

[illegible]

[illegible] cometa [illegible] apparuerunt annis 1531 1607 et 1682 [illegible]

[illegible]

[illegible]

[illegible] ad periodum [illegible]

[illegible] planetarum [illegible] Saturni [illegible]

[illegible]

[illegible] planetarum [illegible]

[illegible] annis 1531 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] actione planetarum Iovis et Saturni [illegible]

[illegible]

[illegible]

[illegible] et ab [illegible] in cometa produci posset [illegible]
[illegible] invenerint [illegible] quae cometa [illegible]
[illegible] ut [illegible] et inquirentes [illegible] quae in hac [illegible]
[illegible] separarent periodi hanc [illegible]
[illegible] orbita [illegible]
[illegible] annorum circiter 76 [illegible] sive [illegible] postrema [illegible]
[illegible]
[illegible] anno 1759 [illegible]
[illegible] die 13 [illegible] Novembris [illegible]
[illegible] Praedixerunt [illegible]
[illegible] anni 1759 [illegible]
[illegible] actionibus [illegible]
[illegible] et error [illegible]
[illegible]
[illegible]
[illegible] cometa [illegible]
[illegible] 1759 [illegible] 33 [illegible]
[illegible] annorum [illegible] 1607, et 1682 [illegible]
[illegible]
[illegible]
[illegible] Theoria omnium [illegible] attractionis [illegible]
[illegible] Newtoni [illegible] et [illegible]
[illegible] in planetis [illegible] attractione [illegible]
[illegible] 30 [illegible]
[illegible]
[illegible]
[illegible] planetas [illegible]
[illegible]
[illegible] orbitae et similes, quae in [illegible]
[illegible] ab hac lege [illegible]
[illegible] solis in Saturnum [illegible]
[illegible] Saturni [illegible]
[illegible] in conjunctione [illegible]
[illegible] Theoria [illegible]
[illegible] planetis non [illegible]
[illegible] comparata [illegible]
[illegible]
[illegible] corporis periodi [illegible]
[illegible]
[illegible]
[illegible] in Saturno [illegible]

[illegible] et minue actione [illegible]
[illegible] actione [illegible]
planetarum [illegible] talis apparent [illegible]
[illegible] actione veneris [illegible] actione [illegible]
[illegible] contrarias actiones [illegible]
[illegible]
[illegible]
[illegible] quod [illegible] inaequalitates.
[illegible] patet est mutua planetarum actione [illegible]
[illegible] Jovis in solem [illegible]
[illegible] gravitas Saturni in solem [illegible] actione Saturni [illegible]
[illegible] deberet [illegible] Saturni [illegible]
[illegible] ad [illegible]
[illegible]
[illegible] actione mutua [illegible]
[illegible]
[illegible] vis [illegible] vis Jovis in solem actione Saturni
[illegible]
[illegible] actio reciproca [illegible] praedictam [illegible] Jovis
actione Saturni gravitas [illegible] in solem [illegible] Saturni praedictam [illegible]
[illegible] actione Jovis [illegible]
[illegible]
[illegible] mutuam planetarum [illegible]
[illegible] in [illegible]
annos 1914 et 1703 [illegible] nostris observationem [illegible]
[illegible] errorem [illegible]
[illegible] errorem [illegible]
[illegible] Saturni [illegible]
[illegible] inde [illegible] deduxit [illegible] Saturni [illegible]
[illegible]
[illegible]
[illegible]
[illegible] actione Jovis et Saturni [illegible] Saturni [illegible]
[illegible]
[illegible] Jovis [illegible] gravitas Saturni in solem [illegible]
[illegible] et Saturni [illegible]
[illegible] actione Saturni [illegible]
[illegible] omnino [illegible] Saturni [illegible]
[illegible] in Jove [illegible]
[illegible] actione [illegible] Saturno [illegible]
[illegible]
[illegible]

[illegible] ad [illegible] semper [illegible] secundo [illegible]

[illegible] ad [illegible] demum [illegible] prout [illegible]

[illegible] ad absidas planetae [illegible] demum [illegible]

[illegible] prout [illegible]

[illegible] minores [illegible]

[illegible] dimensiones [illegible]

[illegible] planetae revolutionibus [illegible]

[illegible] dimensiones [illegible]

[illegible] possunt [illegible]

[illegible] prout [illegible] actione [illegible]

[illegible] actione [illegible] orbita [illegible]

periodicorum temporum [illegible] mutationes [illegible]

[illegible] in prima ipsa revolutione [illegible] dimensiones [illegible]

[illegible] una actione [illegible]

[illegible] successiva dimensione [illegible] periodicorum [illegible]

[illegible] singulis revolutionibus [illegible]

[illegible] demum prout [illegible]

[illegible] proprio motu [illegible] ad absidas [illegible]

[illegible] planetae [illegible]

[illegible] demum [illegible]

[illegible] mutatione [illegible]

[illegible] mutatione [illegible]

[illegible] Saturni orbitae et tempus periodicum [illegible]

[illegible] contra [illegible]

[illegible] orbitam et tempus periodicum [illegible]

[illegible] animadverte [illegible] mutationes [illegible]

[illegible] in orbita et tempore periodico [illegible]

[illegible] in orbita et tempore periodico [illegible]

[illegible] omnes [illegible]

33 [illegible] ratio [illegible]

[illegible] actionis [illegible]

[illegible] productione [illegible]

[illegible] actio [illegible]

[illegible] ratio actionis [illegible]

[illegible] orbitas determinaverit

[illegible] contra [illegible]

[illegible]

[illegible]

[illegible] cometa anni 350: [illegible] plane [illegible] iis [illegible]
[illegible] observationes [illegible] [illegible] provinc[illegible]
[illegible] cauda [illegible]
[illegible] tempore [illegible] de cometa [illegible]
[illegible]
[illegible] nobis apparet [illegible] cauda [illegible]
[illegible] omnino [illegible]
[illegible] : [illegible] cauda [illegible]
[illegible] anno 354 [illegible]
memoriae [illegible]. Consueti anni 354 [illegible]
[illegible]

Nec diversitas [illegible]
[illegible]
[illegible] ad [illegible] et absolute [illegible]
[illegible] causa in diversis [illegible]
[illegible]
[illegible] anno 1682 [illegible]
[illegible]
[illegible] tamen [illegible]
[illegible]
[illegible] in [illegible]
[illegible] observationes [illegible]
[illegible] anni 1531 [illegible]
[illegible] anno 1607 [illegible]

[illegible] 1607 [illegible]
[illegible]
[illegible]
[illegible] in omnia anni [illegible]
[illegible]
[illegible] Saturni [illegible]
[illegible]
[illegible]
[illegible] cometas [illegible]
[illegible]
[illegible] 1683 [illegible]
[illegible]
[illegible] observationes [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] Saturni [illegible] motus, quod [illegible]
[illegible] orbita [illegible] unde [illegible]
[illegible] confirmavit [illegible] in [illegible]
[illegible] vationes [illegible]
[illegible] indicant [illegible]
[illegible] 20 productis in [illegible] anni 55.

[illegible] De [illegible] hoc loco [illegible] Christing [illegible]
[illegible] Accademia ad [illegible]
[illegible]
[illegible] periodo [illegible]
[illegible]
[illegible] duo [illegible] ad [illegible]
[illegible] nec in motu [illegible]
[illegible] quare [illegible] Copernico systema

[illegible] inclinationis orbitae planetarum [illegible]
[illegible] orbitae planetarum [illegible]
176 [illegible] 480 [illegible] 92 [illegible] posita sit [illegible]
[illegible] orbita planetae [illegible]
planetae [illegible] ecliptica [illegible]
[illegible] ecliptica [illegible]
[illegible] inclinationem orbitae [illegible] ecliptica [illegible]
[illegible]

[illegible] ex praecedenti propositione actione planetae per orbitam [illegible]
[illegible] ad [illegible] orbitae [illegible]
[illegible] planetae per orbitam [illegible] non [illegible] orbitam [illegible]
[illegible] patet [illegible]
[illegible] et nodi [illegible]
[illegible] nodis [illegible]
inclinationem [illegible] nodi [illegible]
[illegible]
[illegible] planetae [illegible]
[illegible] et [illegible] inclinatio orbis [illegible] ad eclipticam [illegible]
[illegible] nodis [illegible]
[illegible] planetae [illegible]
[illegible] et circa actionem planetae [illegible]
[illegible] inclinatio [illegible] nodi [illegible]
[illegible] nodi [illegible]
[illegible] et [illegible] descendens et [illegible]
[illegible] inclinationis orbitae [illegible]
[illegible] planetae [illegible]
[illegible] planetae inclinatio [illegible] planetarum [illegible]
[illegible]

371 [illegible] primo [illegible] planetarum [illegible] orbitarum [illegible] ad [illegible]
[illegible] et loco [illegible] pendeat mutatio inclinationis [illegible]
nodorum [illegible] inclinationis [illegible]
[illegible] in planetis [illegible]
[illegible] planeta [illegible] eclipticam et nodos [illegible]
[illegible] nodos [illegible]
[illegible] longitudines nodorum [illegible] inclinationis [illegible]
[illegible] Saturni [illegible]
[illegible] inclinationis [illegible] in altera [illegible]
[illegible] inclinationis [illegible]

372 [illegible] secundo [illegible] ecliptica [illegible] actione [illegible]
[illegible] actionem [illegible] nodorum [illegible]
[illegible] actionem [illegible] actione [illegible]
[illegible] actione [illegible]
[illegible] inclinatione [illegible]
[illegible] ad eclipticam.

3[illegible] Item tertio [illegible]
[illegible] loci [illegible] eclipticae [illegible]
[illegible] orbitae [illegible]
[illegible] super [illegible] orbitae [illegible] nodos [illegible]
[illegible] proprios [illegible] nodos [illegible]
[illegible] ad eclipticam [illegible]

Propositio [illegible]

[illegible]
10[illegible] [illegible] ecliptica [illegible]
[illegible]
[illegible] actione planetae [illegible]
[illegible] super orbitam [illegible]
[illegible]
[illegible]
[illegible]
[illegible] inclinatio [illegible]
[illegible]

[illegible] praeditam [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] nodi [illegible] maior et [illegible]
[illegible] nodorum [illegible] orbitae [illegible]
[illegible] puncto aequinoctii [illegible]
[illegible] nodi [illegible]
[illegible]
[illegible] actione [illegible]
[illegible]
[illegible] puncto aequinoctiali [illegible] compositis [illegible]
[illegible] secundum [illegible]
[illegible] mutationem obliquitatis eclipticae [illegible]
[illegible] puncto aequinoctii [illegible] nodi [illegible]
[illegible] Ecliptica [illegible]
[illegible]
[illegible] puncto [illegible]
[illegible] Eclipticae [illegible] Eclipticae [illegible]
[illegible]
[illegible] ad quantitatem [illegible] puncto aequinoctiali [illegible] mutationis obliquitatis Eclipticae [illegible]
[illegible] Eclipticae [illegible]
[illegible] puncto [illegible]
[illegible] ad aequinoctii [illegible]
[illegible] puncto aequinoctii [illegible]
[illegible] puncto [illegible]
[illegible] obliquitatis Eclipticae
[illegible]
[illegible] nodi [illegible]
[illegible] nodi [illegible] puncto aequinoctii [illegible]
[illegible] ad puncto aequinoctii [illegible]
[illegible]
[illegible] nodis [illegible] Eclipticae [illegible]
[illegible] orbita [illegible]
[illegible]
[illegible]
[illegible] Ecliptica [illegible]
[illegible] Eclipticae orbita [illegible]
inclinat [illegible] nodi [illegible] orbitae [illegible]
[illegible] inclinatio orbitae [illegible]
[illegible]
[illegible] motu [illegible]
[illegible]
[illegible] Eclipticae [illegible]
[illegible]
[illegible]
[illegible]

[illegible] planetae et [illegible] motu [illegible]

[illegible] ad aequatorem et [illegible]

[illegible]

Si [illegible] motu [illegible] immutabi[illegible]

aequinoctiis [illegible] aequinoctii [illegible] corpus [illegible]

[illegible] planetae [illegible] puncto [illegible]

[illegible] puncto [illegible]

[illegible]

[illegible]

[illegible] omnes [illegible]

[illegible] quod [illegible]

[illegible] planetarum [illegible]

[illegible] mutatione [illegible]

[illegible] quod [illegible]

[illegible]

[illegible]

[illegible] in quibus [illegible]

[illegible]

[illegible] mutationem [illegible]

[illegible]

[illegible]

[illegible] motus [illegible] et [illegible]

[illegible] mutationem

[illegible] motus [illegible]

[illegible]

[illegible] planetae [illegible]

[illegible] nodorum [illegible]

[illegible]

[illegible] planetae [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] planetae [illegible]

[illegible]

[illegible] oppositione [illegible] potest [illegible] magna [illegible]
[illegible] obliquitate [illegible] stationes [illegible] maxima [illegible] gradus [illegible]
[illegible] potest [illegible] orbita planetae [illegible]
[illegible] momentum [illegible] maxima [illegible]
[illegible] majori [illegible] inclinatione [illegible] ecliptica [illegible]
[illegible] aequales [illegible] dimidio semper [illegible]
[illegible] distantiam [illegible]
[illegible] inclinatio orbitae [illegible] eclipticae [illegible] multo [illegible]
[illegible] opposito [illegible] [illegible]
[illegible] planetae [illegible] positione [illegible] versus [illegible]
[illegible] inclinationem [illegible] quae de hoc [illegible]
[illegible] sensibus [illegible]
[illegible] aequatori [illegible] [illegible]
[illegible] et motu [illegible] eclipticae [illegible] planetarum [illegible] altiora planetarum [illegible]
[illegible] [illegible] per [illegible]
[illegible] eclipticae ad aequatorem [illegible] pendet [illegible]
[illegible] sensibiliter [illegible]
30 [illegible] eclipticae [illegible] punctorum [illegible]
[illegible] planetarum [illegible] [illegible]
[illegible] ad annum [illegible]
[illegible] multo minores [illegible]
[illegible] demonstrationem [illegible]
[illegible] corpore [illegible]
[illegible] ecliptica [illegible] punctis [illegible]
[illegible] semper [illegible] mutatio [illegible] eclipticae [illegible]
[illegible] demonstrationem [illegible]
[illegible] motus [illegible]
[illegible] [illegible]
Propositio [illegible]
[illegible] aequatoris [illegible]
[illegible] aequatoris [illegible]
[illegible] minor [illegible] polus [illegible]
[illegible] aequatoris [illegible]
[illegible] [illegible]
[illegible] pendere [illegible]
[illegible] [illegible]
[illegible] a sole et luna [illegible]
[illegible] in annos [illegible]
[illegible] [illegible]
[illegible] motationem [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]

[illegible] eclipticae [illegible] aequatoris [illegible]
[illegible] nodi [illegible] ecliptica [illegible] parallelo [illegible]
[illegible] nodi orbitae [illegible]
[illegible] nodi [illegible] eclipticae [illegible]
[illegible] eclipticae [illegible]
[illegible] orbitae [illegible] actione [illegible] in particulas singulas materiae
ad terrestrem aequatorem redundantis [illegible] ad singulas nodi [illegible]
[illegible] orbitae [illegible]
[illegible] aequatoris [illegible]
[illegible] parallelis [illegible] aequatoris [illegible]
[illegible]
[illegible] actione solis [illegible] aequatorem [illegible] nodi [illegible]
[illegible] ecliptica [illegible] parallelis [illegible]
[illegible] aequatoris [illegible]
[illegible]
[illegible]
[illegible] motu [illegible]
[illegible]
[illegible] praecessionis aequinoctiorum [illegible]
[illegible]
[illegible] secundorum [illegible] solis [illegible] quadrantem [illegible]
[illegible] praecessio [illegible]
[illegible]
[illegible] praecessionem [illegible] solis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] inclinationis [illegible] eclipticae [illegible]
[illegible]
[illegible]
[illegible] orbitae [illegible]
[illegible]
[illegible] non [illegible] inaequalitatem [illegible]
[illegible]
[illegible]
[illegible] inclinationis sive nodos aequatoris et eclipticae [illegible]
[illegible]
[illegible] aequatoris [illegible]
[illegible] inclinationem [illegible]
[illegible]

[illegible] aiq vero que oriri ab [illegible] aqu[illegible] per vices mutationis [illegible] [illegible] [illegible] ad [illegible] que ab altiore [illegible] [illegible] soli [illegible] [illegible]
[illegible] [illegible] ad quadraturam [illegible] [illegible]
[illegible] alterum modo [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] una [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible] Sed [illegible] [illegible] [illegible] ad hunc modum [illegible] [illegible] [illegible] materiae [illegible] [illegible] solida tantum materia est [illegible] [illegible] [illegible] [illegible] [illegible] contra [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] praecessionis aequinoctiorum quae a sole et luna oriuntur diversae, diversis [illegible] [illegible] [illegible] [illegible] [illegible] praecessionis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] diversa, ob [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] distantia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] praecessionem aequinoctiorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Si praecessio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] actione lunae [illegible]

[illegible] [illegible] major actione lunae [illegible] in materia solida [illegible] aequinoctiorum [illegible] actionis [illegible] [illegible] [illegible] [illegible] actionis solis [illegible] praecessionem aequinoctiorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] sit minor actione lunae [illegible] maxima [illegible]
[illegible] producat [illegible] mutationem tamen obliquitatis [illegible] majorem [illegible]
quod [illegible] non obliquitas [illegible] immutatur [illegible] nodi [illegible]
[illegible]
[illegible]
[illegible] majorem immutationem [illegible] Sol. [illegible]
tamen [illegible] in
[illegible]
[illegible]

160 [illegible] ob actionem [illegible] pendant multo majori [illegible] observationes [illegible] actio solis [illegible] moveat lunares nodos, et [illegible]
[illegible] parte [illegible] nodos [illegible]
[illegible] revolutionem [illegible]

[illegible] actionem [illegible] solis [illegible] ad movendos [illegible]
[illegible] ad movendos lunares nodos [illegible]
[illegible] diametro [illegible]
[illegible] actio [illegible] major [illegible]
solis a qua nodorum motus pendet. porro [illegible]
[illegible]
[illegible] moveri lunares nodos ad [illegible]
[illegible] moventur puncta [illegible] ducta in [illegible]
[illegible] ad aequatorem
sive ad puncta [illegible] movenda [illegible] solis [illegible]
quod ad movendos [illegible] nodos

[illegible] actionis solis ad movendos [illegible] sive ad movenda puncta [illegible]
[illegible]
[illegible] solis ad movenda puncta [illegible]
[illegible] nodorum [illegible] pro ratione [illegible]
materiae [illegible]
[illegible] ab aequatore ad [illegible] solis [illegible]
[illegible] inter lineam nodorum aequatoris [illegible]
[illegible]
[illegible]
[illegible] solis [illegible]
[illegible] solis ad movendos nodos aequatoris [illegible]
[illegible] solis [illegible] ad movendos lunares nodos [illegible]
[illegible] motus [illegible]
[illegible]

[illegible] actioni solis addatur [illegible] actio [illegible] actioni solis [illegible]
[illegible]
[illegible]

161 [illegible] propositiones [illegible]

[illegible]
[illegible]

9. [illegible] spheris compressio [illegible] minorem statuit magnam autem [illegible] statuit majorem [illegible] rationem [illegible] æquatoris [illegible] adhibet proportionem [illegible] ad [illegible] determinandam [illegible] [illegible] quam a [illegible] [illegible]

10. [illegible] Newtonio adhibitam ad præcessionem [illegible] determinandam [illegible] nominis [illegible] [illegible] [illegible] potius [illegible] [illegible] [illegible] propositiones [illegible] præcessionis [illegible] methodum vero [illegible], qua potius determinanda [illegible] quod [illegible] [illegible] [illegible] methodum a Newtono [illegible] præcessiones [illegible] [illegible] necesse [illegible] [illegible]

[illegible] totius Newtoni methodi fundamentum [illegible] [illegible] [illegible] nostra [illegible] [illegible] capite [illegible] methodus [illegible]

[illegible] præcessione æquinoctiorum et mutatione obliquitatis eclipticæ [illegible] [illegible] [illegible]

[illegible] mutationem obliquitatis eclipticæ [illegible] [illegible] semper movet in [illegible] eclipticæ obliquitatem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] inæqualitates [illegible] solis ac lunæ [illegible] [illegible] æquatoris [illegible] illas inæqualitates [illegible] [illegible] [illegible] [illegible] [illegible] æquatoris [illegible] [illegible] [illegible] [illegible] [illegible] solis ac lunæ [illegible] [illegible] æquatorem inter [illegible] [illegible] [illegible] [illegible] mutatur [illegible] [illegible] solis [illegible] inclinatio [illegible] mutatur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] intra æquatorem [illegible] inclinationes [illegible] solis [illegible] [illegible]

[illegible] rationem [illegible] [illegible] [illegible] [illegible] [illegible] mutationes [illegible] [illegible] solis [illegible] ad orbitam [illegible]

[illegible] in puncto [illegible] [illegible] ad æquatorem [illegible] [illegible] [illegible] orbita lunaris cadit infra æquatorem [illegible] [illegible] [illegible]

ad aequatorem successive [illegible] in regressione nodi ascendentis lunae a primo gradu librae [illegible]
borealia ad primum Arietis et minuitur successive [illegible] a primo [illegible]
Arietis per signa australia ad primum [illegible] [illegible] [illegible]
nodorum [illegible] [illegible] lunae [illegible]
[illegible] declinatio lunae fiet successive major et maxima ascendens nodus lunae [illegible]
per signa borealia ad primum Arietis [illegible] idem [illegible] per signa
australia a primo Arietis ad primum librae [illegible] quae habetur [illegible]
[illegible] ascendens lunae in Arietis et media [illegible] [illegible]
[illegible]
[illegible] per aequinoctium vernum et minorem [illegible]
[illegible] per aequinoctium autumnale ad solstitium [illegible]
[illegible] erit in aequinoctio verno [illegible] aequinoctio autumnali [illegible]
[illegible] ad minuta [illegible] et octo secunda [illegible]
[illegible] [illegible]
[illegible] aequatorem [illegible]
[illegible] obliquitatis eclipticae [illegible]
[illegible] aequinoctiorum [illegible]
[illegible] [illegible]
[illegible] obliquitatis eclipticae [illegible]
[illegible] ad eclipticam [illegible] in puncto aequinoctii autumnalis [illegible] nodus ascendens
[illegible] a primo librae ad primum Arietis, [illegible] nodus [illegible]
[illegible] nodus ascendens [illegible] aequatoris [illegible]
ascendens [illegible] per signa australia a primo Arietis ad [illegible]
primum Arietis in [illegible] erit [illegible] nodus ascendens aequatoris [illegible]
[illegible] nodi ascendentis [illegible]
[illegible] [illegible]
nodus minus [illegible] respectu ad Arietis initium [illegible] ad eclipticam [illegible]
[illegible] modo [illegible] longitudinem nodorum [illegible]
gradus [illegible] declinationem lunae [illegible] nodus [illegible] ascendens [illegible] a primo [illegible]
[illegible] ad primum [illegible] et erit minus [illegible]
[illegible] inclinatio aequatoris et eclipticae [illegible] nodus ascendens [illegible]
[illegible] australia a [illegible] Arietis ad primum [illegible] nodo ascendentis
[illegible] aequatoris et eclipticae [illegible]
[illegible] ascendens [illegible] per signa borealia [illegible]
[illegible] australia [illegible]
[illegible] media [illegible]
[illegible] octo minuta et [illegible]
[illegible] [illegible]
minutis et [illegible] octo secundis [illegible]
[illegible]
[illegible] differentia [illegible] a medio [illegible]
[illegible] annis [illegible]
[illegible] nodi [illegible] revolutionem [illegible]

[illegible] [illegible] mutationis obliquitatis [illegible] quod postremo loco est, hic videndum est quid [illegible]
[illegible] [illegible] [illegible] [illegible] poli sive axis terrestris [illegible] obliquitate [illegible]
[illegible] mutationis [illegible] [illegible] etiam causa obliquitatis [illegible] mutationis [illegible]

[illegible] hoc [illegible] nodus [illegible] [illegible] orbita lunaris [illegible] inclinat [illegible]
ad aequatorem [illegible] [illegible] majori [illegible] positionem [illegible] [illegible]
[illegible] aequatorem terrestrem [illegible] [illegible] eclipticae [illegible]
orbitam lunarem [illegible] [illegible] [illegible] [illegible] nodi [illegible] [illegible]
[illegible] eclipticae obliquitas [illegible] actione [illegible] minima [illegible] contra [illegible]

[illegible] [illegible] obliquitatis [illegible] [illegible] mutatio obliquitatis eclipticae [illegible]
[illegible] primo [illegible] quod producit [illegible] [illegible] ad quadraturam nodi [illegible] haec major est
[illegible] orbita lunaris ad aequatorem [illegible] inclinatur [illegible] [illegible] actione [illegible]
[illegible] major est [illegible] major sit inclinatio lunaris [illegible] aequatorem [illegible] mutatio obliquitatis [illegible]
[illegible] [illegible] pro ratione [illegible] nodi [illegible] [illegible]
[illegible] [illegible] quae non compensatur [illegible] [illegible] [illegible]
[illegible] [illegible] lunaris [illegible] nodis orbitae [illegible] lunaris et aequatoris [illegible]
decrementum obliquitatis eclipticae a luna producit [illegible] ad quadraturam nodi
[illegible] [illegible] luna eadem producit in [illegible] aequatorem [illegible] nodis
[illegible] [illegible] nodi in [illegible] [illegible] [illegible] incrementum, et de-
crementum producere [illegible] [illegible] inclinatione orbitae lunaris
ad aequatorem [illegible] incrementum [illegible] [illegible] unde [illegible] incrementa [illegible]
[illegible] decrementa [illegible] obliquitatis eclipticae [illegible] [illegible]
[illegible] nodorum lunarium [illegible]

[illegible] [illegible] [illegible] eclipticae non debet respondere [illegible] actioni [illegible]
inclinationi lunaris [illegible] ad aequatorem [illegible] actio illa major sit, [illegible] minor [illegible]
sit actio lunae mutationem [illegible] obliquitatis eclipticae [illegible] modo incrementum [illegible]
[illegible] mutatio ipsa respondere [illegible] [illegible] lunae [illegible] [illegible] sit [illegible]
[illegible] obliquitatis eclipticae [illegible] [illegible] decrementum [illegible] [illegible]
[illegible] [illegible] minoratur [illegible] [illegible] nodus [illegible] [illegible]
in primo [illegible] [illegible] maxima [illegible] [illegible] ad aequatorem [illegible] minima [illegible]
[illegible] [illegible] [illegible] [illegible] inclinatio [illegible]
[illegible] actio lunae in [illegible] aequatorem [illegible] maxima [illegible] nodus lunae [illegible]
haud tamen maxima [illegible] [illegible] eclipticae et aequatoris [illegible] mutatio [illegible]
eclipticae quae spectat mutationem [illegible] [illegible] non [illegible]
[illegible] orbitae lunaris ad aequatorem [illegible] [illegible]
[illegible] positioni lunari et nodorum [illegible] differentia incrementi [illegible] decrementi [illegible]
[illegible] eclipticae respondet [illegible]

[illegible] [illegible] [illegible] nodus [illegible] [illegible] in primo [illegible] [illegible] incrementum [illegible]
[illegible] [illegible] obliquitatis [illegible] quae producit luna [illegible] ad [illegible] aequatoris
[illegible] [illegible] [illegible] mutatio obliquitatis eclipticae [illegible] nodus [illegible]
[illegible] [illegible] [illegible] habebit maximam [illegible] obliquitatis [illegible]
[illegible] in illa positione nodi minima [illegible]

[illegible] pro incremento et decrescentia obliquitatis [illegible] linea in tractibus [illegible]

[illegible]

[illegible] mutationes obliquitatis Ecclipticae [illegible]

[illegible] obliquitas Eclipticae [illegible]

[illegible] in tractibus [illegible]

[illegible] Borealia ad [illegible] incrementum obliquitatis [illegible] per [illegible] ad [illegible]

[illegible] apparet incrementum

ducitur [illegible] sed alia ratione ostendi potest [illegible] in tractibus aequatore [illegible] in puncto orbitae propria [illegible]

magis ab aequatore distat [illegible] gradibus [illegible]

[illegible] Borealibus [illegible]

[illegible] a primo [illegible]

[illegible] per [illegible] in [illegible] circ. [illegible]

[illegible] majorem arcum et longiori tempore durat [illegible] sua [illegible] major [illegible]
[illegible] per [illegible] Borealia, [illegible]
per [illegible] earumdem de causis [illegible]

15 [illegible] nodi [illegible] ad [illegible] Borealia [illegible]
quo obliquitas eclipticae [illegible] in [illegible] nodi [illegible]
[illegible] obliquitatis eclipticae [illegible]
[illegible] spectato [illegible]
[illegible] mutatio obliquitatis eclipticae [illegible]
[illegible] erit maxima, [illegible]
[illegible] minima [illegible]

16 [illegible] motus praecessionis aequinoctiorum [illegible] punctorum aequinoctialium simulat [illegible] obliquitatis eclipticae [illegible] mutationem [illegible] ratione [illegible] primus [illegible]
[illegible] polus eclipticae [illegible] in altero [illegible]
[illegible] mutationis [illegible]
[illegible] eclipticae [illegible] polus [illegible]
[illegible] radius [illegible] polus [illegible]
[illegible] circa punctum B [illegible] tempore [illegible]
[illegible] circiter [illegible] novam [illegible]
[illegible] circa polum eclipticae [illegible] annis circiter viginti [illegible] polus aequatoris [illegible]
[illegible] puncto B [illegible] circa polum eclipticae [illegible]
[illegible] praecessio aequinoctiorum [illegible]
[illegible] distantia [illegible] a polo eclipticae [illegible]
[illegible] maximum [illegible] minimum [illegible] mutatio obliquitatis eclipticae oriens.

17 [illegible] mutationem [illegible] observationibus annorum [illegible]
[illegible] obliquitatis [illegible]
[illegible] in altero [illegible]
[illegible] in [illegible] aequinoctiorum [illegible]
[illegible] majorem [illegible]
[illegible] minorem vero [illegible]

18 [illegible] quod haec licet apta sint ad explicandum [illegible] motum [illegible]
[illegible] actionibus solis et lunae et mutationem obliquitatis eclipticae [illegible]
[illegible] ad explicandum [illegible] motum [illegible]
[illegible] aequinoctialium et mutationem obliquitatis eclipticae [illegible] ad [illegible]
[illegible] ab actionibus solis et lunae [illegible]
[illegible] minuendus, prout postulat [illegible]
[illegible] vel minuendus prout [illegible] actio [illegible]
[illegible] mutationem obliquitatis eclipticae [illegible]
[illegible] ab inaequalitate actionis lunae per [illegible]
[illegible] actio solis, et [illegible]
[illegible] prout postulat actio [illegible]
[illegible]

cohon [illegible]

1 Postquam [illegible] physicam motuum cælestium [illegible] Newtoni mentem [illegible] et aliqua dicamus [illegible] de causis physicis motuum cælestium [illegible] alii [illegible] ad demonstrandum [illegible]

[illegible] Plato Aristoteles [illegible] aliqui motus cælestium corporum [illegible] immediate [illegible] spiritibus creatoris ministris vel ab anima [illegible]

[illegible] Keplerus [illegible] solem [illegible] circa axem proprium [illegible] immateriales [illegible] motum rotationis solis participent planetæ omnes [illegible] diversos [illegible] species immateriales [illegible] primum species immateriales [illegible] decrescere in ratione [illegible] distantiæ [illegible] secundum planetarum moles, et magnitudines [illegible] in ratione [illegible] distantiæ a sole, [illegible] in ratione [illegible] speciebus immaterialibus, tertio motus sive quantitates materiæ [illegible] inter se rationem [illegible] distantiæ a sole [illegible] in speciebus immaterialibus [illegible] planetas [illegible] soli [illegible]

[illegible] donatam, [illegible] soli, et [illegible] porro [illegible] motus planetarum [illegible] prima [illegible] planetas [illegible] quo [illegible] immateriales species [illegible] et molem planetarum [illegible] in ratione [illegible] tempora periodica [illegible] a sole [illegible] in ratione [illegible] distantiæ a sole [illegible]

[illegible] ab iisdem motus [illegible] motus secundarios [illegible] circa primarios [illegible]

[illegible] vortices [illegible] materiæ [illegible] sive circa solem ad cometarum motus producendos sive circa primarios ad explicandos motus secundariorum [illegible] diversas [illegible]

[illegible] Prob: [illegible] corpore [illegible] naturalem [illegible] philosophorum [illegible] et corpori animalis [illegible] motus [illegible]

[illegible] Prob: [illegible] in ratione distantiæ a sole [illegible] in ratione [illegible] soli [illegible]

hoc loco adversarii [illegible] [illegible] difficultates [illegible]
[illegible] partes [illegible] vero [illegible] [illegible]
[illegible] potius ita [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
[illegible] hipotesis illas [illegible]

[illegible] in circum[illegible] vortice [illegible] describere [illegible] animantur [illegible]
[illegible] mediocri distantia [illegible]
[illegible]
[illegible] aequilibrium possit [illegible]
[illegible] vorticis motu planetae motus [illegible]
[illegible] simul [illegible]
vortices [illegible]
[illegible] temporis [illegible]

[illegible] Bernoulli [illegible] in [illegible]
[illegible] in hac hipotesi ponantur [illegible]
[illegible] aequilibrium [illegible]
[illegible] ita [illegible]
[illegible]
[illegible] vortice [illegible]
[illegible] vortices [illegible] ad [illegible]
[illegible] hipotesis [illegible]
[illegible] planeta in aequilibrio non [illegible]
descendet [illegible] fluido [illegible]
[illegible] planetae [illegible]
[illegible] motus vorticis [illegible] aequatur non [illegible]
[illegible] celeritatis [illegible]
planetae [illegible] vortice [illegible]
[illegible]
[illegible]
[illegible]
[illegible] celeritatis [illegible]
[illegible] perpendiculariter [illegible]
[illegible] perpendiculariter [illegible] Bernoulli
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] motu vorticis [illegible]
[illegible] vortices [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] hinc [illegible] a centro vorticis particulae [illegible] [illegible] [illegible] quae potentius [illegible] est contra [illegible]. Dicam in hac hipotesi [illegible] [illegible] [illegible] moveri ut [illegible] [illegible] [illegible] proportio [illegible] vero, [illegible] omnes [illegible] quas lineas [illegible] [illegible] [illegible] [illegible] Deferiunt [illegible] et [illegible] [illegible] [illegible] Veneris [illegible] [illegible] nec similis sit [illegible] Veneris nec similiter [illegible] [illegible] [illegible] huiusmodi in orbita [illegible] [illegible] non [illegible] [illegible] ergo [illegible] [illegible] area, [illegible] [illegible] orbita Veneris non [illegible] in [illegible] eiusdem orbitae [illegible] et eodem [illegible] in eodem tempori [illegible] ut evenit in orbita mercurii [illegible] [illegible] [illegible] tempori proportionali [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] erit

173 Opp. [illegible] [illegible] hipotesi vorticum ellipticorum [illegible] [illegible]
[illegible] respondeo non apparere [illegible] [illegible] quae in vortice motus ellipticus producitur [illegible] [illegible] [illegible] vortice [illegible] a constanti quadam [illegible] [illegible] quae [illegible] magnum [illegible] non [illegible] actio vorticum adiacentium [illegible] [illegible] communiter [illegible] ad [illegible] quippe [illegible] [illegible] vorticum [illegible] [illegible] [illegible] comprimunt [illegible] [illegible] [illegible] quin [illegible] [illegible] invicem et proprios motus mutuo [illegible] [illegible] comprimens [illegible] [illegible] [illegible] comprimens [illegible] [illegible] planetarum orbitas [illegible] [illegible] excentrici [illegible] [illegible] astronomicas observationes [illegible] [illegible] [illegible] omnium planetarum [illegible] [illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible] [illegible] [illegible] [illegible] vorticis [illegible] [illegible] tardius [illegible] [illegible] propter [illegible] [illegible] [illegible] nec [illegible] vortices [illegible] [illegible] [illegible]

174 [illegible] diversi vortices [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] vortices [illegible] [illegible]
[illegible] affirmati [illegible] ad [illegible] [illegible] motus vorticis admittendi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] simplicitati [illegible] [illegible] diversos motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dico vortices [illegible] materia [illegible] [illegible] [illegible] nec [illegible] [illegible] [illegible] [illegible] a motibus [illegible] contrariis [illegible] ad [illegible] [illegible] vortices [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] separant, [illegible] vortices [illegible] motus [illegible] [illegible] [illegible] in se invicem [illegible] nec [illegible] [illegible] [illegible] [illegible] ergo diversi vortices [illegible] [illegible]

175 Opp. [illegible] cometarum motibus vorticum [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a Zodiaco [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible] nec ab Occidente in Oriente [illegible] [illegible] [illegible] [illegible] [illegible] non observantur
[illegible] [illegible] in primis Chartesianos [illegible] confidenter [illegible] [illegible] vortices [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vortices [illegible] [illegible] non [illegible] Chartesianos [illegible] [illegible] [illegible] [illegible] Cometas [illegible] [illegible] planetarum [illegible] [illegible] [illegible] nec ab Occidente in Oriente [illegible]

[illegible]

propriis [illegible] observationum que [illegible]
[illegible] [illegible] solaris [illegible] alios [illegible]
[illegible] et calorem [illegible] [illegible] [illegible]
[illegible] et ab his [illegible] turbarentur [illegible] et [illegible]
[illegible] solaris [illegible] [illegible]

[illegible] satis sit

Dissertatio Tertia

De [illegible] huius universis [illegible]

326 Postquam systematis [illegible] [illegible] et [illegible] physicam [illegible] [illegible] satis [illegible] posuimus, corpora ipsa quae universi ordinem componunt [illegible] [illegible] quae ipsis [illegible] [illegible] [illegible] [illegible] quia vero corporum huius [illegible] classes [illegible] [illegible] et [illegible] solem et fixas [illegible] [illegible] primarios sive secundarios [illegible] [illegible] [illegible] dicere possimus, [illegible] et [illegible] et alios [illegible] [illegible] [illegible] evanuit [illegible]

De fixis et Sole

327 De [illegible] huius universi [illegible] et sole [illegible] quae [illegible] in universo videntur [illegible] [illegible] quae ad [illegible] pertinent [illegible] [illegible] Caput primum

De magnitudine [illegible] [illegible] et numero [illegible]

328 [illegible] universi corporibus magnitudine et splendore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] et [illegible] diametros [illegible] diversos [illegible] [illegible] [illegible] [illegible] dividuntur [illegible] maxima [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] apud astronomos [illegible] sit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] majorem [illegible] [illegible] prout [illegible] [illegible] major vel minor. hinc [illegible] diameter, ut alia apparens sit, quam [illegible] [illegible] alia sit vero [illegible] [illegible] [illegible] telescopii vel alterius [illegible] [illegible] hanc autem diametrum [illegible] nos oportet [illegible] [illegible] [illegible] et [illegible] [illegible] statuimus, in [illegible] [illegible] [illegible] [illegible] uno minuto secundo, [illegible] [illegible] [illegible] [illegible] [illegible] grandiores [illegible] [illegible] [illegible] [illegible] alteri [illegible]

329 [illegible] apparenti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fixae in constellationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] inter constellationes duodecim zodiaci [illegible] in [illegible] [illegible] ad zodiacum [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et quinque [illegible] in [illegible] altero quod [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quibus in alias [illegible] et [illegible] [illegible]

[illegible] possint stellas quae ultra tropicum Capricorni sitae sunt, nec fuit [illegible] nobis [illegible] His autem constellationibus nomina imposuerunt veteres ex fabulis et [illegible] [illegible] et [illegible] instrumentis artium [illegible] 195
ad arbitrium [illegible] evenit ut nominis [illegible] constellationum
190 Constellationibus [illegible] lactea, seu Gallaxia et [illegible] [illegible] est
[illegible] patet tota [illegible] circulum quidem [illegible] [illegible] lacteo
[illegible] stellae autem nebulosae [illegible] quae tamen [illegible]
habent sive potius [illegible] sphaerae quae [illegible] extra [illegible]
candorem [illegible] aliquam constellationem [illegible] Zodiacale quod est [illegible]
[illegible] tempori [illegible] zodiaco [illegible]
[illegible] nubes [illegible] et apex in zodiaco sit [illegible]
[illegible] et orienti [illegible]
191 [illegible] quae [illegible] stellae [illegible]
[illegible] componunt
192 [illegible] numerat [illegible] 1022 [illegible] 1026 Ptolemeus [illegible] 196
[illegible] Flamstedius, Keilius aliique [illegible] [illegible]
[illegible] numerum [illegible] nobis est quoque [illegible] telescopio
[illegible] immensus [illegible] et eo semper major quo [illegible]
[illegible]

Caput Secundum

De Distantia Magnitudine [illegible] densitate, luce [illegible]

193 Distantiam [illegible] corporum [illegible] rotationis [illegible] distantia [illegible] semidiametri ad distantiam [illegible] calestis [illegible] per [illegible] porro [illegible] solis [illegible] communiter [illegible] distantia [illegible] [illegible] quod [illegible] rovescentum decem et octo [illegible] 197
quod [illegible] parte possit [illegible] methodo [illegible]
[illegible] distantias accurate determinamus tamen argumenta [illegible]
[illegible] distantiam [illegible] stellas [illegible]
[illegible] nobis [illegible] quae a sole et [illegible]
[illegible] et attractis [illegible] tamen [illegible]
[illegible] oportet [illegible]
[illegible] attractio in ratione distantiae [illegible]
sit hinc [illegible] distantia [illegible]
distantia solis [illegible] major [illegible]
[illegible] nullo [illegible] potius quod [illegible]
[illegible] inversa [illegible]
194 [illegible] magnitudo realis ob distantiam [illegible] minor [illegible]
[illegible] magnitudine apparente [illegible]
[illegible] primarum [illegible] secundus distantia autem [illegible]
[illegible] semidiametris [illegible]
diametro [illegible] porro magnitudines reales [illegible]
[illegible] diametrorum [illegible] realis magnitudinis [illegible]
[illegible] magnitudo aut [illegible]
[illegible] distantia [illegible]
[illegible] nostra. Sed magnitudo [illegible]
[illegible] omnium [illegible] Copernicum [illegible]
[illegible] solis nostri [illegible] et [illegible]

[illegible] quae magnitudine [illegible] quod habent minores non dicimus esse minores quod magnitu
dines [illegible] apparentis magnitudinis decrescant pro majori distantia [illegible]
195 Quae sit solis massa ex attractione quod exercet in planetas agnosci potest [illegible] quae sol agit in [illegible]
[illegible]: est aequalis massae [illegible] divisae per quadratum distantiae [illegible] ulterius [illegible]
attractio est aequalis radio orbitae Veneris [illegible] divisae per quadratum tempo
ris periodici. Ergo est massa solis divisa per quadratum distantiae Veneris a sole [illegible]
[illegible] divisa per quadratum periodici temporis [illegible]
[illegible] divisae per [illegible] temporis [illegible] ratio [illegible]
Veneris [illegible] massa [illegible] distantia Veneris a sole divisa per quad. [illegible]
[illegible] sive [illegible] solis ad massam [illegible]
[illegible] quae quaesita [illegible] massa
[illegible] 355 major massa telluris [illegible]
[illegible] massa [illegible] tamen admodum probabilis [illegible]
massae haud valde solis massae [illegible]
196 Massae per volumina divisae exhibent densitates [illegible]
[illegible] quae divisae [illegible]
[illegible] adquatur [illegible] solis
[illegible] telluris [illegible] fere
[illegible] nil sequitur quod [illegible] Caput Tertium
De substantia solis et [illegible]
[illegible] solis ac [illegible]
tamen semper [illegible] ipsa esse ign
et hanc [illegible] sit
Propositio
Substantia solis [illegible] est formaliter ignea
198 Prob. [illegible] hoc sit [illegible] a sole [illegible] locus ac solis [illegible]
substantia [illegible] sit formaliter [illegible] calefaciat [illegible]
[illegible] praestat, quae praecipui ignis [illegible] substantia solis [illegible]
[illegible] quod [illegible]
[illegible] quod [illegible]
[illegible] non [illegible]
[illegible]
[illegible] a sole [illegible]
[illegible] in [illegible]
[illegible] sol [illegible] corpora [illegible]
[illegible] formaliter in [illegible] ignea
Sed [illegible] solis et [illegible] ignea [illegible]
[illegible] dissipari [illegible] et videmus [illegible]
[illegible] nisi apto [illegible]
[illegible] corpora [illegible] ignis [illegible]
[illegible] nutriendo servando [illegible]
[illegible] substantia solis calorem et [illegible] ignis producat non sequitur [illegible] esse [illegible]
[illegible] formaliter [illegible]
[illegible] corpora [illegible] sint ignea [illegible]
[illegible] ignes producunt [illegible] in vino et similibus [illegible] in ore et stomacho [illegible]
producunt nisi [illegible] quae habent [illegible]
[illegible] calorem [illegible]

[illegible] minus quae gestae requirendo [illegible]
quo vim et similia calorem [illegible] producunt [illegible]
[illegible] et contracta [illegible] solute possint [illegible]
[illegible] quod in ore et stomacho [illegible] crassiores partes [illegible]
ipsae particulae et aquae possint [illegible] e et stomacho [illegible]
[illegible] sohive [illegible] mixtione [illegible] corpora ipsa quae [illegible]
[illegible] praestant [illegible] et certe [illegible]
[illegible] habent [illegible]
[illegible] obtamen [illegible] non [illegible]
effectus praestant [illegible] praestant plures et plurius [illegible]
[illegible] ac certis positis circumstantiis: [illegible]

200 [illegible] Si sol [illegible] materia [illegible] rarefacta [illegible] calorem
amitteret [illegible] comburerent [illegible]

[illegible] 202

[illegible] materia [illegible] observat [illegible]
[illegible] dicimus [illegible] contendimus [illegible]
ipse [illegible] porro patet compacta [illegible] materia [illegible]
[illegible] ipsa [illegible] solis partes [illegible] gravatur facile dissolvi
[illegible] materia [illegible] rationem praestari [illegible]

[illegible] colorem facile [illegible] effluvia quibus [illegible]
[illegible] tamen et dicimus de [illegible] differentias [illegible]
[illegible] et [illegible] servandoque [illegible]
[illegible] compactior in sole [illegible] calore [illegible]
[illegible] nostri dicimus [illegible]

[illegible] viciniora [illegible] comburat [illegible] corpora [illegible]
[illegible] solis [illegible] comburerentur [illegible] minime di[illegible]
[illegible] viciniora [illegible] et rapuerat [illegible]
[illegible] solida solis [illegible] densiores [illegible]
[illegible] constiterat a sole minus [illegible]

201 [illegible] Si sol [illegible] majorem calorem produceret [illegible] hyeme [illegible]
[illegible]

[illegible] coloris [illegible] [illegible] aliis: et [illegible]
[illegible] Que
[illegible] distantias [illegible] solis
[illegible] corpora [illegible] prout [illegible]
[illegible] prout solis [illegible] agunt [illegible]
[illegible] minus [illegible] obliquitate radii [illegible]
[illegible] obliquae directionis [illegible]
[illegible] refractionem quam [illegible] in transitu per [illegible]
[illegible] valeant [illegible] directe [illegible] 204
[illegible] quod hyeme calor a sole [illegible]
[illegible] producatur [illegible] brevius soli [illegible]
[illegible] longiores et minus [illegible] sol a nostro [illegible]
[illegible] aestate [illegible] solis distantia [illegible]
[illegible] calor, quod [illegible] quod hyeme [illegible]

[illegible] ... solis ... [illegible]

... [illegible] color ... [illegible] ... gradus [illegible]

... [illegible] admittatur ... [illegible]

... majorem diei colorem ... [illegible]

... [illegible] regiones nostras ... [illegible]

... caloris gradus ... [illegible]

... [illegible] gradus ... [illegible]

... [illegible] ... diei ... [illegible]

... multo majorem ... [illegible] ... diebus ... [illegible]

... noctes ... solis ... majores ... caloris ... [illegible]

... [illegible] ... color ... [illegible]

... [illegible] ... solstitio aestivo ... multo ... [illegible]

203 [illegible] ... diebus ... [illegible]

... omnibus ... diametri ... [illegible]

... [illegible] ... semper ... [illegible]

... [illegible] ... solis ... diametri ... [illegible]

... omnibus ... apparentiis ... [illegible]

... diametro ... [illegible]

... diametro minor ... [illegible]

... [illegible] ... majorem ... [illegible]

... minoris magnitudinis ... [illegible]

... quatuor ... [illegible]

... simul omnes diametros ... majorem ... [illegible]

... diametro ... [illegible] ... diameter ... [illegible]

... diametris ... minor diametro ... [illegible]

... a diametris ... solis ... [illegible]

... noctes ... diurna solis ... [illegible]

... [illegible]

... [illegible]

... in solis ... horizontali ... [illegible]

... [illegible]

... [illegible]

Quod autem ... [illegible]

... [illegible]

... [illegible]

... [illegible]

... [illegible] ... diebus ... [illegible]

... solis, ... [illegible]

204 [illegible] ... [illegible]

... [illegible]

... [illegible]

... [illegible]

... [illegible]

... [illegible] ... diebus ... [illegible]

Solis discum, ut post dies paucos [illegible] aut maiores [illegible] solet [illegible] cernuntur [illegible] rectis [illegible] ~~[illegible]~~ De solaribus maculis [illegible] potissimum [illegible] quaestionem [illegible] [illegible] quam [illegible] [illegible] adversant solis [illegible] [illegible] [illegible] propositione [illegible]

Propositio Prima

Solares maculae [illegible] particulae sunt [illegible] et occultatione, e sole

205 Prob: [illegible] solis corpus [illegible] circumpositas quae in nostrum [illegible] [illegible] et igne vivido undique perfusum maxime [illegible] intestino motu [illegible] et fermentatione [illegible] [illegible] partibus ad [illegible] continuo [illegible] evolati [illegible] [illegible] contingat [illegible] et sensibiles [illegible] maculas [illegible] tes solis discum [illegible] [illegible] solis maculae [illegible]

206 Opp. [illegible] corpora quae ad [illegible] planetarum [illegible] possent a materiis in aere nostro [illegible] [illegible] defectus solis accidentales [illegible] historiis facta est mentio [illegible]

Verum [illegible] solis [illegible] [illegible] [illegible] [illegible] plures [illegible] [illegible] [illegible] [illegible] [illegible] maculae ipsae solis et corpore [illegible] [illegible]

Sed [illegible] materiae in [illegible] nostro [illegible] [illegible] [illegible] a diversis terrae locis spectatae in diversis solis disci [illegible] apparerent. Deinde [illegible] tempore [illegible] [illegible] possent [illegible] sed [illegible] in omnes [illegible] [illegible] [illegible] sensibiliter [illegible] omnes in [illegible] [illegible] a materiis in [illegible] condensatis repeti potuerunt.

Quod autem spectat [illegible] accidentales defectus solis observatos [illegible] maculis solaribus repetant [illegible] [illegible] sed [illegible] debere a materiis in atmosphaera condensatis [illegible] de solaribus maculis [illegible] [illegible]

207 Opp. 2 solis maculae [illegible] solidae et [illegible] motu solis [illegible] [illegible] [illegible] solis [illegible] [illegible] maculae solis [illegible] [illegible] solis [illegible] [illegible] differentes [illegible] [illegible] [illegible] [illegible]

[illegible] maculis in [illegible] [illegible] solidis [illegible] [illegible] causa apparet [illegible] undique solidi [illegible] [illegible] [illegible] [illegible] [illegible] solis [illegible] [illegible] solis [illegible] [illegible] Proinde [illegible] maculae solis [illegible] [illegible] [illegible] [illegible] a solis [illegible] [illegible] [illegible] solis omnino [illegible]

[illegible] ut [illegible] opinionis confirmationem [illegible] nostro modo [illegible] explicantur; [illegible]

1 quod maculae solis postquam [illegible] diu latuerant [illegible] solis disci loco apparea-
nt, non ita [illegible] ostenderent [illegible] loco quo did[illegible]
[illegible] maculas, [illegible] aptiora, ut in [illegible] nostra [illegible], in quibus [illegible]
[illegible] et frequentius nubes formantur? Vides inde [illegible] locus solaris [illegible]
maculae [illegible] unde fiat ut in locis ijsdem, ubi maculae [illegible]
[illegible] versus orientem [illegible] non prime illae ipsae maculae sint quae [illegible]
in conspectum redeant sed aliae [illegible] denuo formatae

2 Quod maculae solis [illegible] diversas, imo [illegible] maculae figura [illegible]
[illegible] quod ex sententia nostra [illegible] varia
[illegible] sordes et [illegible] solis in grandiora [illegible] pro varia [illegible]
[illegible] variisque motibus [illegible] aequatur [illegible]
[illegible] varias esse, ac diversas [illegible] maculae [illegible] et diver-
sas apparere debere id vero maxime si macula eadem in diversis solaris disci locis observe-
tur [illegible] in medio [illegible] videlicet amplior [illegible]
[illegible] videbitur [illegible] et apparebit contrario [illegible]
3 [illegible] minor in nubibus [illegible] quod non aequalem ubique densitatem [illegible]
[illegible] colorem [illegible] diversum [illegible] in maculis solis [illegible] non aequali ubique et
uniformi [illegible] nec aequaliter lumen solis intercipiunt [illegible]
[illegible] obscurae videbuntur, imo et colores diversis in locis diversos exhibeant pro diversa
ratione [illegible] quod copiosius transmittunt [illegible]

208 Opp. 3 Si maculae solares [illegible] quod [illegible] maculae [illegible]
[illegible] apparerent, sed [illegible] videntur [illegible]

[illegible] Astronomi plures et Scheinerus in primis [illegible] et [illegible]
[illegible] aequatorem maculas apparere [illegible] institutis observationi-
bus [illegible] quare [illegible]
[illegible] maculas [illegible] videri solent circa solis aequatorem [illegible] in sententia [illegible] nostra [illegible]
[illegible] aliquod [illegible] nisi [illegible] maculis [illegible]
maculae quae circa aequatorem [illegible] forma disci solis orientem directe [illegible]
[illegible] in conspectum veniunt quae vero oriuntur circa [illegible] videri [illegible]
[illegible] minores semper apparere debent [illegible] interdum [illegible]
[illegible] hinc quae circa polos oriuntur [illegible] facilius [illegible] quam quae
oriuntur circa [illegible] unde frequentiores in [illegible] locis [illegible]
209 Opp. 4 [illegible] solis [illegible] concres-
cunt in grandiores massas ut macu[illegible] maxime [illegible]
[illegible] arena [illegible]

[illegible] colores [illegible] varii [illegible] ignis [illegible]
[illegible] a dispositione [illegible] ad actionem [illegible]
[illegible] varia [illegible] vero [illegible]
[illegible] pariter ad [illegible] hunc [illegible]
[illegible] resolvuntur et [illegible] quod [illegible]
[illegible] dicamus esse constitutionem sordium ac [illegible] actio
[illegible] solis [illegible] non conjiciant [illegible] impedire non possit
[illegible] in grandiores massas [illegible] sed [illegible] ad dies [illegible] et menses [illegible]
[illegible] videamus quae ipsa [illegible] Ita [illegible]

Maculae solares non haberent omnes superficiei solis [illegible] [illegible], inde distan-
tes [illegible]

Prob. Illud in primis et sordes ac [illegible] a sole vi aliqua, ut satis [illegible] projicerentur [illegible] in aliqua a sole distantia [illegible] [illegible] [illegible] maculas [illegible] constituent, deinde motus communicatus maculis [illegible] a sole [illegible] quod sequentium [illegible] [illegible] [illegible] disco solis [illegible] dimidio solis [illegible] [illegible] et laterent dimidio [illegible] [illegible] disco distant minus quam dimidio tempore apparerent [illegible] maculae [illegible] [illegible] via solis lumen impediunt [illegible] [illegible] transeunt [illegible] solis discus et [illegible] aliquando oculis nostris [illegible] [illegible] [illegible] orbita pervenirent quae extra solis discum [illegible] a solis [illegible] [illegible] major est semicirculo [illegible] minus quam dimidio tempore [illegible] apparebunt. Porro licet maculae [illegible] aequali tempore semper [illegible] [illegible] apparerent et laterent aliquando [illegible] [illegible] [illegible] [illegible] [illegible] anno 1503 [illegible] anno 1616 aliquae [illegible] plures maculae [illegible] [illegible] plures tamen inde distant [illegible]

20i Opp. [illegible] [illegible] [illegible] a disco solis sensibilem haberent [illegible] [illegible] disco, sed hoc falsum est. [illegible]

[illegible] objectis sensibilis [illegible] [illegible] [illegible] [illegible] distantia objecti a lumine sed etiam debet [illegible] [illegible] objecti ipsius distantia a superficie [illegible] [illegible] [illegible] in solis maculis non [illegible] [illegible] [illegible] aliquantulum [illegible] superficiei solis [illegible] [illegible] distantia tamen [illegible] ad distantiam [illegible] [illegible] [illegible] [illegible] [illegible] parallaxis possunt producere [illegible] maxima differentia temporis [illegible] [illegible] quo maculae lateant et [illegible] [illegible] maxima ipsarum distantia a sole [illegible] tres decimas septimas partes solaris [illegible] sive nova terrestris [illegible] [illegible] [illegible] potest esse aequalis [illegible] [illegible] ad distantiam [illegible] [illegible] [illegible] licet maculae distent [illegible] sensibilem habere debent parallaxim [illegible]

[illegible] Opp. 2 Si maculae solis [illegible] solis distarent, diutius viderentur, quam laterent [illegible] pars major, quam semicirculus [illegible] [illegible] [illegible]

Resp. licet maculis a sole distantibus orbitae pars major quam semicirculus [illegible] [illegible] maculae [illegible] minus quam dimidio revolutionis tempore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] possint quae redderentur [illegible] a nobis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] distant a solis [illegible] [illegible] [illegible] [illegible] minus quam dimidio orbitae suae [illegible] [illegible] [illegible] Ergo etiam minus quam dimidio tempore [illegible] apparebunt.

2i3 Opp. 3 Maculae solis licet solis disco [illegible], minori tempore apparere deberent [illegible] a sphaericitate [illegible] solis [illegible] minus quam [illegible] [illegible] hemisphaerii solis videntur, [illegible]

Resp. [illegible] differentiam invisibilis hemisphaerii solis a visibili [illegible] nobis [illegible] [illegible] majorem minutis 30 [illegible] maculae [illegible] [illegible] hora [illegible] [illegible] [illegible] hora diutius laterent maculae solares quam apparerent [illegible] [illegible] [illegible] non [illegible] solis [illegible] distantiae [illegible] [illegible] solis [illegible] [illegible]

2i4 [illegible] natura [illegible] [illegible] [illegible] in sole [illegible] maculae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] hismaculis [illegible]

[illegible]

[illegible]

[illegible]

caput quartum

[illegible] atmosphaera solis et lunae [illegible]

[illegible] atmosphaera [illegible]

[illegible] atmosphaera [illegible]

[illegible] propositio [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] atmosphaera [illegible]

[illegible] atmosphaera [illegible]

[illegible] solis [illegible] non posset maculas [illegible]

[illegible]

[illegible]

[illegible] atmosphaera [illegible] maculas [illegible]

[illegible] atmosphaera [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] solis atmosphaera [illegible]

[illegible] omnino [illegible]

[illegible] maculas [illegible]

[illegible] in primis [illegible] atmosphaera [illegible]

[illegible]

[illegible] solis atmosphaera [illegible]

[illegible]

[illegible] atmosphaera [illegible]

[illegible]

[illegible] in atmosphaera solis [illegible]

[illegible]

[illegible] atmosphaeris corporum [illegible]

[illegible] quod si [illegible]

[illegible] a sole [illegible] atmosphaera [illegible]

[illegible]

[illegible] atmosphaera [illegible]

[illegible]

[illegible] atmosphaerica [illegible]

[illegible]

[illegible] radios solis [illegible] ubi [illegible]
[illegible] repelli [illegible] ut [illegible]
[illegible] universis [illegible]
[illegible] demonstratur [illegible]
[illegible] ostenditur [illegible] fieri non posse [illegible]
[illegible] gravitati [illegible]
~~[illegible]~~ [illegible]
[illegible] 221
[illegible]
[illegible]
218 ~~[illegible]~~ primo fumos [illegible] solis [illegible] solis [illegible]
[illegible] particulas atmosphaerae [illegible] considerare [illegible] repellunt. Ergo
Si [illegible] non [illegible] ostendere [illegible] radios solis [illegible] in particulas ipsius atmosphaerae
[illegible] a [illegible] possint [illegible] est cum [illegible] tenuitas [illegible]
[illegible] momento tamen donantur minimo [illegible] actio est [illegible]
[illegible] particulas atmosphaerae solis radios [illegible] quod sane non [illegible]
gravitati contra [illegible] et [illegible] impulsio radiorum [illegible]
[illegible] gravitati particularum atmosphaerae solis [illegible] centrifuga [illegible] 222
[illegible] major vel minor [illegible] est [illegible] tendit [illegible]
[illegible] particulis [illegible] atmosphaerae [illegible] ipsius ut sole [illegible]
[illegible] gravitatis [illegible] impulsionem particularum [illegible]
[illegible] in ipsis producat in partes [illegible] manebit adhuc [illegible]
[illegible] atmosphaerae [illegible] major est [illegible] impulsione radiorum [illegible]
solis particulae ipsius atmosphaerae [illegible] continuo [illegible] particulae [illegible] semper [illegible]
[illegible] atmosphaerae omnes [illegible] nec posset ullo pacto [illegible] 223
aut [illegible] in [illegible] a sole distantia continere. [illegible] impulsionem radiorum [illegible]
atmosphaera ipsius debet et.
219 [illegible] licet impulsio radiorum solis [illegible] gravitatem particularum atmosphaerae [illegible]
solis [illegible] tamen potest minor fieri in data a sole distantia [illegible] ad distantiam [illegible]
[illegible] particulae atmosphaerae [illegible] ultra [illegible] a sole. [illegible]
Si [illegible] impulsionem a radiis solis [illegible] in solis vicinia [illegible] major gravitate
particularum atmosphaerae in solem semper in omni a sole distantia deberet esse major: [illegible]
[illegible] radiis [illegible] in ratione reciproca [illegible]
[illegible] distantiarum a sole in qua ratione [illegible] decrescit. contra gravitas particularum
atmosphaerae in solem in reciproca [illegible] distantiae a sole decrescit [illegible]
[illegible] impulsio radiorum et gravitas particularum utraque decrescit in [illegible]
eadem [illegible] ad invicem in omni a sole distantia. [illegible] 224
[illegible] gravitatem particularum [illegible] in solis vicinia semel [illegible]
in omni distantia a sole [illegible] particulares [illegible]
[illegible] distantiarum impulsio radiorum [illegible]
[illegible] solis [illegible] particulas atmosphaerae repellere [illegible]
[illegible] adversarii contendunt [illegible]
[illegible] radiorum solis [illegible] solis [illegible] atmosphaera.
220 [illegible] atmosphaera [illegible] licet nulla observatione [illegible] atmosphaera [illegible]
[illegible] nebulosae [illegible] et aliis notissimis

quae sub albo suo splendore cinctae videntur. Hinc enim derivant apparentiae al[illegible] admosferis, quae vel hic magna vel e [illegible] [illegible] et reflexa [illegible] vadant sensibiles. Id si foret, fieri vel saltem alicui admosfera multo [illegible] [illegible] quae sit admosfera solis. Haec enim ad regiones [illegible] translata in tanta a tellure distantia [illegible] [illegible] videre posset, [illegible] nobis sensibilis. Sed haec [illegible] conjectura [illegible] [illegible] locum habere debet.

De motibus Solis capitis et [illegible] sectio

221 In sole bini in [illegible] motus apparent, nempe diurnus quo diebus singulis revolvitur circa tellurem ab oriente in occidentem, et annuus quo annis singulis revolvitur [illegible] circa tellurem ab occidente in orientem. Hi motus in sole sunt tantum apparentes non reales, nam oriuntur a motibus diurno et annuo telluris et [illegible] diximus. Sed [illegible] alii motus reales in sole ab astronomis admittuntur: ac primus [illegible] [illegible] circa commune centrum [illegible] systematis planetarii universi, ut vero centrum aut intra solis massam cadat aut parum a superficie solis distet. Hinc motus iste tantus non erit et [illegible] a nobis possit. Alter vero est quo sol circa axem suum revolvitur ac [illegible] hic [illegible] plures [illegible] [illegible] [illegible] ut tamen ab aliis [illegible] non admittatur sit. Sol motum rotationis habet [illegible] quo circa axem [illegible] [illegible].

222 Prob. [illegible] solis maculae suo tempore [illegible] motum videntur omnes quo [illegible] a limbo solis orientali ad occidentalem feruntur. Porro [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] omnes motu eodem [illegible] [illegible] [illegible] [illegible] corpori solari [illegible] [illegible] nempe solo [illegible] maculae [illegible] [illegible] [illegible] revolvitur maculas [illegible] circa se [illegible] [illegible] [illegible] communicationem motus [illegible] et maculae [illegible] [illegible] [illegible] apparentem motum [illegible] [illegible] telluris [illegible] [illegible] et [illegible].

223 [illegible] Maculae solis motus a motu solis [illegible] [illegible] [illegible] [illegible] hoc posito motus in omnibus idem erit. At contra maculae motus differunt [illegible] [illegible] periodicum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] maculae omnes, prout in [illegible] [illegible] disci solis [illegible] [illegible] orbitam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] disco solis [illegible] [illegible] [illegible] [illegible] [illegible] nempe [illegible] solis [illegible] [illegible]

224 [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nempe rotationis circa solem [illegible] [illegible] [illegible] solis [illegible] ab occidentem [illegible] [illegible] productus. Alter [illegible] [illegible] annuus telluris [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] [illegible] [illegible] nobis [illegible] [illegible] [illegible] in maculis [illegible] diversus sit, [illegible] [illegible] [illegible] motus rotationis solis [illegible]. [illegible]

Quod spectat [illegible] tempus periodicum [illegible] [illegible] maculae [illegible] tempore [illegible] [illegible] [illegible] orbitae circa solem [illegible] [illegible] [illegible], at ut tellus [illegible] [illegible] [illegible] maculis motu annuo movetur [illegible] et maculae [illegible] [illegible] [illegible] revolutionem [illegible] [illegible] [illegible] solis [illegible] [illegible] nobis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] orbitae [illegible] [illegible]. [illegible] tempus [illegible] [illegible] [illegible] [illegible] maculae [illegible] tempore [illegible] revolutionis [illegible] [illegible]. Hinc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in orbita sua non [illegible] [illegible] [illegible]

hinc dico in primis sit, et periodicum tempus durationis revolutionis macularum id
Ad hoc spectare omnino debent adversa videri in diversis maculis plurimis diversi
tas vero addi motus particulares qui varii erunt pro variis causis incontrantibus a
quibus producuntur patet aliquas adhuc inaequalitates in tempore periodico macularum
hinc oriri debere.

Quod spectat viam orbitae figuram licet maculae omnes in circulo circa solem moveantur
eas tamen non percipimus in circulo. sed projectas in solis disco factas ut in orbi-
corum caelestium corporum accidit relate ad sferam caelestem. id vero si solis aequator et
ecliptica coinciderent, uti Galileus supponerat vel minimum maculas solis quoque
sed omnes solis projectiones viderentur rectas lineas velut in ... ac macularum motus
ergo perrectus appareret. Verum solis aequator tradidit circiter fere dimidio ec-
lipticae inclinatur et Galileus confirmatis observationibus agnovit, et ex altius ob-
tinuerunt variationes. Inde autem fit ut projectiones circulorum quos solis maculae
percurrunt lineae rectae evadant tantum ubi ecliptica secat solis aequatorem in locis au-
tem aliis evadant ellipses continuo magis compressas prout minus ab ecliptica recedunt.
Hinc accidit ut maculae licet omnes in circulo moveantur circa solem videan-
tur tamen orbitas diversas describere quas nempe illorum circulorum projectiones in
solari disco repraesentant quae quidem orbitarum diversitas major adhuc a motibus par-
ticularibus fieri potest.

Quod spectat velocitatem licet haec aequalis sit ob motum macularum circa solem inaequa-
lis tamen apparebit ob inaequalitatem motus ... et motuum particularium
sed illius motus aequalis velocitas videbitur major in solis disco quo propinquior est 229
in medio disci arcus omnis ac ... singula ... percurrunt maculae, cadunt
in conspectum; contra prope limbum ob solis convexitatem arcus ... solis
... maculae ... in
... stationariae ... et multo tardius motae apparerent, ipsas nempe maculas a vertice
sensu moveri. haec in ... apparenter differant tempora periodica ... orbi ...
229

779 [illegible] planetae aliqui primarii [illegible] Jupiter [illegible] Saturnus satellites habeant quos propriis viribus retinere [illegible] [illegible] in orbibus [illegible] data viribus [illegible] possit [illegible] ipsorum massa [illegible] data [illegible] volumen [illegible] densitatis [illegible] massas [illegible] [illegible] Sed [illegible] methodo [illegible] quae [illegible] densitates [illegible] primariorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Jupiter [illegible] Saturni [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] primarius [illegible] [illegible] [illegible] [illegible] [illegible] habes in sequente tabula.

Planetarum Substantia

Planetae a sole et stellis substantia [illegible] producti [illegible] 340 [illegible]

[illegible] habeant [illegible] sed [illegible] substantia [illegible] philosophis [illegible] communiter [illegible]

330 Prob. [illegible] Planetae sunt corpora opaca [illegible] a sole [illegible] [illegible] nec umbras projicerent nec phases [illegible] [illegible] partem illuminatam [illegible] [illegible] [illegible] umbram [illegible] [illegible] umbra [illegible] [illegible] phases [illegible] luna [illegible] [illegible] [illegible] apparent [illegible] umbra [illegible] [illegible]

Ipsi planetae sunt corpora opaca et obscura

[illegible] quod [illegible] corpora [illegible] [illegible] dissimilibus partibus [illegible] planetae [illegible] corpora [illegible]

Igitur planetae corpora opaca sunt [illegible] [illegible] [illegible] [illegible] in planetis [illegible] a sole [illegible] ad nos [illegible] [illegible] 336 [illegible]

337. [illegible] [illegible] planetae sunt corpora opaca [illegible] [illegible] [illegible] [illegible] [illegible] in aliis planetis [illegible] [illegible] [illegible] [illegible] Saturni [illegible] 33 [illegible] [illegible] [illegible] diversitas [illegible] [illegible] [illegible] 33 [illegible] [illegible] Saturni [illegible] diversitas [illegible] [illegible]

339. [illegible] Saturni corpora opaca [illegible] [illegible] maxima distantia [illegible] Saturni [illegible] illuminat [illegible] [illegible] phases [illegible] [illegible]

230 Oppos[illegible] [illegible] in [illegible] [illegible] interdit [illegible]
[illegible] [illegible] [illegible]

[illegible] Deffectus colores in [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] plano [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] solis similiter [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] &c.

De planetarum maculis. Caput Tertium

[illegible] [illegible] [illegible] maculas in [illegible] [illegible] medio [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in aliis [illegible] planetis maculas [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
et [illegible] in [illegible] [illegible] [illegible] Maraldus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] vero huiusmodi [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] maculas [illegible] quaedam [illegible] [illegible] [illegible]
[illegible] [illegible] maculae apparent [illegible] [illegible] eadem [illegible]
[illegible] [illegible] grandiores [illegible] [illegible] [illegible] [illegible]
[illegible] in maculis [illegible] martis, Jovis et Saturni [illegible] [illegible]
[illegible] [illegible] huiusmodi planetarum [illegible] [illegible] [illegible] [illegible]

Propositio Quarta

Planetarum superficies [illegible] [illegible] [illegible] aspera

236 Prob. [illegible] planetarum superficies [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in diversis locis [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] plane [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] de mundi [illegible]
[illegible] dialogo primo [illegible] experiment. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] planetarum superficies [illegible] [illegible] [illegible]

237 Prob. [illegible] maculae in planetis [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] planetarum [illegible] [illegible] [illegible] mutarentur, [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

Propositio Tertia

Planetarum superficies [illegible] [illegible] [illegible] [illegible]

238 Prob. [illegible] si planetarum superficies [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] proportionali [illegible] [illegible] planetarum [illegible]

Propositio Quinta

[illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible] [illegible]

239 Prob. [illegible] [illegible] [illegible] in plano [illegible] [illegible] analogia [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] nostra [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] propositionem [illegible] [illegible] [illegible] [illegible]
[illegible] monstratum, [illegible]

43

[illegible] partes ac [illegible] in luna [illegible] magnae [illegible] videri [illegible]

[illegible] plurimae [illegible] lucis [illegible] umbrae [illegible]

[illegible] et contra quasi [illegible] multaeque [illegible] videtur [illegible]

[illegible] quod [illegible] [illegible] a confinio lucis [illegible]

[illegible] tamen sit illuminata [illegible] non videntur [illegible] esse [illegible]

[illegible] partibus [illegible] a sole illuminantur [illegible]

[illegible] nostrorum montium [illegible]

Cum [illegible] et [illegible] partes [illegible] in luna [illegible] habere [illegible] ob [illegible]

[illegible] a partibus provenire debent [illegible]

[illegible]

[illegible] habeant [illegible] transmittat ac [illegible]

in luna [illegible] et [illegible] maculas [illegible]

[illegible] quibusdam [illegible] aliquando [illegible]

[illegible] donari [illegible] similibus observationibus [illegible]

[illegible] partes [illegible]

21 [illegible] maculae constantes quae in luna videntur [illegible] per

[illegible] non in maculis [illegible] observantur [illegible] et [illegible]

[illegible] in montibus [illegible]

[illegible] superficie [illegible] potius [illegible]

[illegible] luna [illegible] ascendant [illegible]

[illegible] montes [illegible]

[illegible]

[illegible]

[illegible] lucidiores partes provenient [illegible]

[illegible] maculis constantibus [illegible]

[illegible] et [illegible]

[illegible] luna [illegible]

[illegible] montes [illegible]

[illegible] sed haec [illegible]

[illegible] montibus [illegible] similibus partibus [illegible]

[illegible] aptis [illegible] maculae [illegible]

2 [illegible] montium [illegible] quae [illegible] partibus [illegible]

[illegible] partibus provenient [illegible]

[illegible] observant [illegible] umbras montium [illegible]

[illegible] oppositae apparent [illegible]

[illegible] montibus [illegible]

[illegible] in partes oppositas soli descendente [illegible]

[illegible] montibus [illegible]

[illegible] quae in superficie [illegible]

[illegible]

[illegible] montes [illegible]

[illegible]

[illegible] in [illegible] maculae [illegible] a montibus

[illegible]

243. [illegible] Si [illegible] planetis omnibus [illegible] maculae in [illegible] [illegible] astronomia [illegible] in ipsis maculae sunt. ergo et

[illegible] varia longat in Saturno [illegible] maximo [illegible] possunt quin aliae in ipsis maculae observentur [illegible] semper [illegible] est [illegible] lumen [illegible] orizontis vaporibus immersus quod ut maculae observari in ipso possint [illegible] in Saturno [illegible] distantia [illegible] lumen quo [illegible] hisce [illegible] transitiones [illegible] observari [illegible] horas maculas esse [illegible] ergo et.

[illegible] maculae in planetis observatae esse possunt nubes [illegible] maxima [illegible] maribus, lacubus et:

[illegible] hinc [illegible] in planetis nubes posse [illegible] observari [illegible] haud facile [illegible] propemodum in planetis [illegible] maxima distantia [illegible] [illegible] [illegible] maculae possent apparere. Sed quod hucusque de observationibus [illegible] maculas planetarum [illegible] [illegible] grandiores [illegible] apparent [illegible] [illegible] in maculis [illegible] [illegible] ut videre est in memoriis [illegible] [illegible] planetis non [illegible]

244. [illegible] maculae [illegible] superficiei planetarum [illegible] diversae [illegible] videantur [illegible]:

[illegible] superficiebus [illegible] vicissitudines et mutationes [illegible] [illegible] maculae [illegible] apparent [illegible] [illegible] mutatione [illegible] [illegible] contingere [illegible] mutationes [illegible] superficies [illegible] planetarum [illegible] mutationes [illegible] [illegible] [illegible] ut [illegible] in maculis [illegible] in planetis [illegible] non patent?

[illegible] observantur [illegible] macularum in planetis [illegible] Sed [illegible] macularum [illegible] [illegible] macularum [illegible] semper [illegible] revolutio planetarum [illegible] in maculis [illegible] [illegible] planetarum [illegible] non [illegible] [illegible] observationes [illegible] [illegible] planetarum [illegible] superficiei [illegible] [illegible] majora.

[illegible] Observationum [illegible] [illegible]

245. [illegible] tellure nostra [illegible] existeret [illegible] [illegible] nos [illegible] [illegible] [illegible] [illegible]

Planetae omnes suas habent atmosphaeras [illegible] Propositio

245 Prob: In primis ubi arx [illegible] tot sint [illegible] [illegible] [illegible] [illegible] dicunt id [illegible] inter planetas, ac telluris [illegible] interiacentia videatur, cur ut [illegible] nostrae de ipsis planetis [illegible] non [illegible] et [illegible] ut planeta [illegible] telluri nostrae similes [illegible] [illegible] [illegible] [illegible] mutationes sua atmosphaera [illegible] [illegible] [illegible] aliqua propria atmosphaera destituerentur [illegible] quod [illegible] in planetis [illegible] tiones producere videatur? Astronomi [illegible] [illegible] [illegible] [illegible] [illegible] ad existentiam [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] maculae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] videantur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Martis [illegible] [illegible] [illegible] phaenomena in planetis ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] atmosphaera [illegible] [illegible] Mercurius, ac Venus [illegible] atmosphaera [illegible] destituerentur [illegible] [illegible] [illegible] atmosphaera solis [illegible] [illegible] [illegible] atmosphaera [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] planetae omnes [illegible]

246 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] phaenomena a viris diligentissimis [illegible] [illegible] [illegible] in locis [illegible] [illegible] [illegible] [illegible] [illegible] et clarorum virorum memoria [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sermone [illegible] [illegible] [illegible] [illegible]

247 [illegible] Venus et Mercurius atmosphaera solis immergantur [illegible] [illegible] [illegible] [illegible] [illegible] non evadit [illegible]

248 [illegible] solis atmosphaera [illegible] in planetas [illegible] ipsi immergantur, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] atmosphaera [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] adeo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Veneris ac planetarum [illegible] quidquid immergantur [illegible]

250 [illegible] planetae [illegible] [illegible] atmosphaera [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible]

[illegible] atmosphaera [illegible] mutationes [illegible] phaenomena atmosphaerae [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible] [illegible] nobis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] remotiores planetas ob interpositam [illegible] [illegible] atmosphaeram

[illegible] [illegible] nostra non impedit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] atmosphaera [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] ... videmus ... [illegible]

[illegible] non [illegible]

[illegible] Prima [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Propositio tertia

[illegible]

Scholion

[illegible] temporis [illegible] planetae [illegible]

[illegible] spatio ab [illegible]

Revolutio Periodica [illegible] planeta [illegible]

[illegible] tempus huius revolutionis [illegible]

[illegible]

[illegible]

[illegible]

[illegible] tempore [illegible]

[illegible]

planeta [illegible] post [illegible]

[illegible]

[illegible]

Revolutio [illegible] planetae [illegible] conjunctione [illegible]

[illegible]

[illegible]

[illegible] planeta [illegible]

[illegible]

[illegible]

[illegible]

[illegible] planeta [illegible]

[illegible]

[illegible]

[illegible] observationis determinata.

Propositio Quarta

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] oppositiones [illegible]

[illegible] observationes [illegible]

[illegible]

[illegible]

[illegible] observationes [illegible] patet oppositione [illegible] observationem [illegible] et tempus [illegible] [illegible]

[illegible] non observavi [illegible]

[illegible] observare [illegible]

Porro in [illegible] observare [illegible] Parisiis [illegible] Saturno [illegible]

[illegible]

[illegible] observationes [illegible]

[illegible] observationes [illegible] Parisiis [illegible]

[illegible] observationes [illegible]

imminutionem obliquitatis eclipticae demonstraret, ut mentionem observationes recentiores [illegible] quid [illegible]
[illegible] eclipticae [illegible]. Porro observationes [illegible] haud [illegible]
[illegible] magna [illegible] error [illegible] fuit in [illegible]
[illegible] observationem [illegible] [illegible] majorem [illegible]
eclipticae obliquitatem [illegible] [illegible] in observationibus [illegible]
[illegible] obliquitatis eclipticae [illegible] [illegible] observationes [illegible]
[illegible] apparebat [illegible] eclipticae obliquitatem [illegible]

[illegible] non [illegible], et [illegible] [illegible] [illegible]
[illegible] observationes [illegible] [illegible]
[illegible]
[illegible]
[illegible] observationes [illegible]
[illegible]
[illegible]
[illegible] Porro observationes [illegible] errores [illegible] majores [illegible]
[illegible]
[illegible]
[illegible] anno [illegible]
1763 [illegible] eclipticae [illegible]
[illegible]
[illegible] eclipticae obliquitatem [illegible]
[illegible]
[illegible] observationes [illegible]
[illegible]

[illegible] eclipticae [illegible] observationes [illegible]
[illegible]
[illegible]
[illegible]
[illegible] observationes [illegible]

[illegible] observationes [illegible] anno [illegible]
[illegible] obliquitatis eclipticae [illegible]
[illegible]
[illegible]
[illegible] 24 et horis 4 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] anno [illegible] annos 1300 [illegible] primas observationes astronomicas quas [illegible] nec quo [illegible] Babylonem [illegible] Alexandri [illegible] Babylonis [illegible] tempus [illegible] eclipticae perpendicularis [illegible] memorat [illegible] annos 303 et 150 [illegible] certe et [illegible] annos [illegible] [illegible] Porro [illegible] obliquitatis [illegible] observationes [illegible] eclipticae [illegible] perpendicularis

[illegible] Louvilleus [illegible] observationes astronomicas [illegible] Louvilleus [illegible] obliquitatis eclipticae [illegible] ostendimus

[illegible] quod spectat [illegible] Herodotum [illegible] contradicit [illegible] solis [illegible] solem [illegible] distantiam [illegible] occidere [illegible] mutationem [illegible] Herodoti tempore Herodoti eclipticae obliquitas [illegible] graduum 24 [illegible] mille [illegible] perpendicularis [illegible] eclipticae [illegible] aequatore [illegible] Herodoti [illegible] Herodoto [illegible] observationem [illegible] annorum [illegible] 4 horis [illegible] motu [illegible] solis [illegible] Louvilleus admittit [illegible] eclipticae [illegible] perpendicularis [illegible] [illegible] occidens [illegible] [illegible] Eduardo [illegible] [illegible] Louvilleo [illegible]

[illegible] testimonium [illegible] Diodoro [illegible] [illegible] [illegible] [illegible] observationes [illegible] [illegible] annos [illegible] observationes [illegible] eclipticae [illegible]

[illegible]

Propositio sexta

Mutatio prima obliquitatis Eclipticae a motu Aequatoris in sy[illegible] Eclipticae [illegible] ipso a motu Eclipticae versus Aequatorem provenire.

267 [illegible]

[illegible] 27.

268 [illegible]

269 [illegible]

270 [illegible] 272

273 [illegible]

quando pars ut aliqua remanet invisibilis emisferii, quod illuminato convincat [illegible] iores longe [illegible] semper [illegible] observari [illegible] ac nobis invisibiles [illegible]. Sciendo ut quantitas obscuri emisferii quod invisibile, unde et [illegible] quod in eadem planeta [illegible] ad illud [illegible] a certis solis et [illegible] sit distantia planeta a tellure et sole itemque [illegible] pro varietatis possunt [illegible] [illegible] aut terrae [illegible] ut terrae nulla pars obscuri emisferii quae superi visibile, unde invisibiles nobis videntur [illegible] planetae [illegible] in Iove [illegible] accidit [illegible] [illegible] maximam utriusque distantiam [illegible] spectat, [illegible] in Marte [illegible]

271 Quod vero Lunam spectat [illegible] phases [illegible] quo phases [illegible] ac [illegible] [illegible] modo soli [illegible] visibili emisferio illuminato et illuminato emisferio visibili [illegible] [illegible] patet [illegible] sole est illuminatum emisferium soli obversum [illegible] [illegible] tota [illegible] et ne videri possit [illegible] [illegible] a conjunctione ad oppositionem [illegible] maiorem partem illuminati emisferii [illegible] [illegible] in oppositione ut [illegible] sole [illegible] [illegible] [illegible] ab oppositione ad conjunctionem [illegible] [illegible] [illegible] [illegible] invisibilis [illegible] conjunctione. Phases in quadrantes [illegible] [illegible] ab oppositione [illegible] a conjunctione [illegible] et dimidia [illegible] splendens quadrans [illegible] habetur [illegible] [illegible] ad oppositionem et omnis [illegible] illuminata [illegible] [illegible] post dies [illegible] ut [illegible] dimidia conspicitur [illegible] [illegible] appellant nova [illegible] a conjunctione [illegible] [illegible] phases [illegible] semper obversum soli [illegible] [illegible] [illegible] partis illuminatae obversae occidenti [illegible] obversae Orienti cum decrescit.

272 Veneris [illegible] phases [illegible] [illegible] [illegible] [illegible] [illegible] sole [illegible] phases [illegible] [illegible] in [illegible] ac caeteris planetis contingit [illegible]

273 Cometas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] anno 1665 et 1672 cometa [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] stellis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] illuminati fuerunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cometas [illegible]

[illegible] [illegible] [illegible] tamen [illegible] [illegible]
[illegible] [illegible] diversos [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
est pars [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Cometa [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] magnitudo [illegible] [illegible] [illegible] [illegible] Cometarum

2 [illegible] Cometis [illegible] [illegible] [illegible] [illegible] singularia magis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] Cometa [illegible] adeo [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] post [illegible] [illegible] Cometa [illegible] [illegible] magnitudine
[illegible] [illegible] [illegible] [illegible] [illegible] dies 70 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Cometis [illegible]
56. [illegible] de [illegible] anni [illegible] [illegible] [illegible] [illegible] observationes anno 1580 [illegible]
1665 [illegible] [illegible] [illegible] [illegible] [illegible] anno 1472 [illegible] [illegible]
[illegible] [illegible] observationes [illegible] diametri determinationem [illegible] diameter [illegible]
[illegible] [illegible] [illegible] [illegible] Cometa anni [illegible] 1577 diametrum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
258 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] apparent [illegible]
[illegible] posuit [illegible] [illegible]

2 Uti apparens cometarum magnitudo [illegible] et diversitas [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 259

[illegible] cometae semper sunt [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] Saturno et
Jove, [illegible] Marte [illegible] [illegible]

256 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Cometa anni 1580 [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] semper [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] Astronomos [illegible] [illegible] [illegible] Cometa [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Cometis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Quare ex [illegible] et [illegible] in [illegible] nihil ad distantiam [illegible] quare [illegible] non valde a planetis [illegible]

Prob. Quarto Dom. Vel Cometæ plures diurnam parallaxim majorem viderentur [illegible] quam comperitur Martis parallaxis [illegible] Mars in [illegible] anni 1702 [illegible] plures [illegible] Martis [illegible] sunt. Ergo [illegible] Sole [illegible] non plenum [illegible] non magis credendum quam [illegible] observationes [illegible] nobis [illegible] ad phases [illegible]

277 Opp. Cometa aliqui parallaxim habuisse [illegible] ut Cometa anni 1472 [illegible] habuisse creditur quam [illegible] Luna inferior.

Sed ut Diximus, [illegible] Luna [illegible] non [illegible] a [illegible] ut [illegible] anni 1472 [illegible] Cometæ observationes ita incertæ sunt ut [illegible] parallaxim [illegible] observati [illegible]

Nec de cometarum omnium [illegible] cometa [illegible] à tellure [illegible]

278 Prob. Vel in primis Cometæ plures [illegible] non semper parallaxim [illegible] comete non omnes distantiam [illegible] solis et [illegible] parallaxim [illegible] ad [illegible] parallaxim [illegible] major [illegible] apparent [illegible] Cometæ [illegible]

279 Opp. Cometæ plures [illegible] ut videri [illegible] plures [illegible] codem tempore [illegible] similes [illegible]

Sed hac [illegible] observationes [illegible] posteriores [illegible] planetis observationes [illegible] anno 1723 [illegible] plurimi [illegible] videri [illegible] successive [illegible] oculis conspicui [illegible] temporis [illegible] Cometæ nobis [illegible] tamen a sole [illegible] tellure [illegible] quibus fiant [illegible] accedentes ad telluram [illegible] non [illegible] grandior fit [illegible] quod mutato distantia [illegible]

ne cometae appareant [illegible] in [illegible] ad [illegible] cometae recedant [illegible]
in [illegible] ad [illegible] [illegible] [illegible] [illegible], majores vero in [illegible] [illegible] phases
[illegible] [illegible], [illegible] [illegible] debere cometas, [illegible], atque [illegible] [illegible] quae [illegible]
[illegible] non respondeant, [illegible] in cometis aliquando observata sunt [illegible] [illegible]
nostrae non officere

220 [illegible] magnitudo apparens [illegible] distantia cometarum a tellure [illegible] [illegible] differri non [illegible]
[illegible] nec [illegible] magnitudo [illegible] incerta sit [illegible] [illegible] cometarum [illegible]
[illegible] [illegible] [illegible] indicamus [illegible] [illegible] [illegible] [illegible] [illegible] in
[illegible] motibus non [illegible] hinc [illegible] dicere volumus cometarum [illegible] [illegible]
omnino [illegible] [illegible] [illegible] [illegible] [illegible] in dissertatione [illegible]
[illegible] [illegible] variationibus invenit cometae anni 1531 [illegible] [illegible] [illegible]
[illegible] [illegible] adaequasse [illegible] [illegible] in [illegible] [illegible] [illegible] ut annus tropicus [illegible]
[illegible] hinc [illegible] nullam [illegible] [illegible] mutationem [illegible] [illegible]
[illegible] [illegible] motu [illegible] [illegible] [illegible] parte [illegible] dicemus nec obstat [illegible]
[illegible] motum [illegible] satis [illegible] non solido [illegible] [illegible]
[illegible] [illegible] ostendemus

De cometarum [illegible] motibus

221 cometae [illegible] communem astris omnibus sive diurnum motum sequuntur [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible]. Motus hujus [illegible] [illegible] 29
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dicere aggredimur
[illegible] [illegible] [illegible] [illegible]

Propositio prima

Proprii cometarum motus fiunt circa solem in orbitis [illegible] admodum eccentricis [illegible] omnino iisdem legibus motus [illegible] circa solem [illegible] [illegible].

222 Prob: [illegible] [illegible] qui primus [illegible] cometarum [illegible] motus circa solem [illegible]
[illegible] [illegible] [illegible] motus cometarum annorum 1680 et 1665 ac [illegible] [illegible]
[illegible] [illegible] cometis [illegible] [illegible] [illegible] [illegible] proportionalibus [illegible]
[illegible] admodum [illegible] observationibus [illegible] exacte satisfecisse

[illegible] [illegible] [illegible] cometas 24 [illegible] [illegible] observationes [illegible]
[illegible] observationibus respondentes invenit, ut [illegible] nonnullorum temporis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] ut [illegible]

Q 1 [illegible] tempora cometarum numerus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] inaequalitates apparentes [illegible] [illegible] omnino [illegible] [illegible]
[illegible] [illegible] [illegible] observationibus [illegible] exacte satisfecit [illegible] [illegible]
circa solem [illegible] [illegible] [illegible] admodum [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] componatur, ut [illegible] [illegible]
[illegible] omnes

Denique post annum 1744 cometarum [illegible] [illegible] [illegible] motus et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Boscovichio major [illegible] [illegible] [illegible] observationibus [illegible] ad cometas [illegible]
[illegible] [illegible] hinc [illegible] [illegible] [illegible] astronomus [illegible] [illegible] [illegible]
cometarum [illegible] [illegible] non habeat [illegible] [illegible] [illegible] [illegible] cometis motum [illegible]
[illegible] planetarum motu diversum [illegible] [illegible] [illegible] motum.

223 Opp: Motus cometarum [illegible] per rectam lineam [illegible] [illegible] [illegible] cometae [illegible]

Sed hae [illegible] cometa [illegible] revera motus rectus [illegible]

[illegible] cometa in [illegible] apparet [illegible]

[illegible] cometa [illegible] apparent [illegible]

[illegible] comet[illegible] ad [illegible] apparet [illegible]

[illegible] haud [illegible] apparet [illegible]

[illegible]

1740 [illegible] cometarum fit per parabolas [illegible] observationibus [illegible] omnes [illegible] cometarum [illegible] apparent [illegible] per parabolas [illegible] orbitis parabolicis [illegible]

[illegible] motus in hypothesi orbitae parabolicae [illegible] hypothesi [illegible] observationibus [illegible] propositionis nostrae veritate [illegible] parabolicam [illegible] orbitis [illegible] excentricitatem [illegible]

Porro [illegible] a cometis descriptas [illegible] orbita [illegible] parabolicas [illegible] astronomi [illegible] commodia [illegible] motus [illegible] a cometis [illegible] parabolicam [illegible] motus [illegible] observationes [illegible] motus [illegible]

285 Oppis. Motus cometarum est irregularis et non est ellipticus.

Sed irregularitates quae in cometarum motibus observantur praecipuum constituunt nostrae propositionis demonstrationem ad motus cometarum apparentes. Haec valde irregularis [illegible] videbitur si ellipticus orbita solem [illegible] [illegible] et [illegible] et annuae parallaxis sive annui motus [illegible] comparatae ut astronomorum [illegible] relationem testimonia certum est quod [illegible] [illegible] [illegible] [illegible] quin [illegible] [illegible] loco cometarum irregularitates [illegible] [illegible] per [illegible] [illegible] ad ellipticum motum et [illegible] attractionum mutuarum et parallaxim [illegible] [illegible] ut nemo [illegible] [illegible] ellipticum motum cometarum quae [illegible] [illegible] irregularitates a mutua attractione et annuo parallaxi orbis [illegible] [illegible] non erit [illegible] motus ellipticus [illegible] quas [illegible] ad [illegible] [illegible] et a mutua attractione [illegible], et a annuo parallaxi orbis. [illegible]

286 Oppiss. Cometae cum eliptico [illegible] [illegible] tempore appareant. [illegible]

[illegible] quod cometae brevi tempore appareant [illegible] excentricitate maxima orbitae [illegible] [illegible]. [illegible] ut a [illegible] perihelio aliquantulum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], et inconspicui nobis sint, in ipso autem perihelio [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] ut videri a nobis possint [illegible] omnis moveantur. [illegible] [illegible] tempore brevi cadere in conspectum nostrum possint [illegible] [illegible] cometae [illegible] [illegible] non [illegible] [illegible], et nec evanescant, [illegible] [illegible] videri desinent [illegible] [illegible] quod plures telescopiis detegantur, ergo quod [illegible] [illegible] visibiles [illegible], et telescopiis adhuc inspiciuntur postquam nudis oculis invisibiles facti sunt [illegible] [illegible] in [illegible] appareant qui motibus [illegible] ellipticis determinatis respondeant [illegible] quandoque [illegible] [illegible], quod nec [illegible] cometarum [illegible] [illegible] loca [illegible] omnia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nec postea oculis evanuerunt [illegible] [illegible] [illegible] possint [illegible] [illegible] motu proprio [illegible] [illegible].

Propositio Secunda

[illegible] [illegible] [illegible] [illegible] [illegible]

287 [illegible] huius propositionis [illegible] [illegible] [illegible] [illegible] quod in [illegible] [illegible], astronomi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] differentia cometarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], qui [illegible] huiusmodi esse cometa anni 1556 qui [illegible] 1748 et cometa anni [illegible] 80 quod [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] huiusmodi praedictionibus [illegible] fides danda sit, [illegible] [illegible] [illegible] cometae [illegible] [illegible].

288 Oppis. Plures cometarum reditus praedicti fuerunt qui non contigerunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] annos [illegible] [illegible] [illegible] [illegible] periodum [illegible] quod anno 1680 observarunt Blanchinus et Maraldus [illegible] [illegible] [illegible] [illegible] Blanchinus [illegible] Maraldus [illegible] [illegible]. Sed has praedictiones [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible] in cometis, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cometas [illegible] [illegible] [illegible] cometa anni [illegible].

Sed plura quae hanc difficultatem solvunt. Primo observationes veterum in Cometis nulla fuerunt om-
nino fidelis, plurimi enim innumera [illegible] [illegible] et [illegible] apparitionis [illegible] [illegible]
nec prosequebantur nec praecise satis nec satis accurate. porro hinc fit ut [illegible] aliquorum Cometa-
rum tempora periodica et reditus definiri possint ut in [illegible] omnino possint [illegible] [illegible]
torum observationum [illegible] tempora periodica ac reditus Cometarum quid definiti [illegible]
incerti valde habendi erunt. maxime si veterum observationum [illegible] utique fuerunt prae-
dictiones [illegible] [illegible] [illegible] [illegible] ut observationes illae
veterum sint incertae. hinc ad Cometis [illegible] ad ideas nostras, [illegible] [illegible] [illegible]
tiores [illegible] observationes [illegible] habuerunt quibus [illegible] [illegible] Come-
tarum reditus a nobis [illegible] [illegible] statim tamen observari [illegible] [illegible] [illegible]
non evenerit. quid erit si Cometa [illegible] [illegible] [illegible] sit nec in [illegible]
nostro visibilis fuerit [illegible] per [illegible] [illegible] si [illegible] ab oculis nostris fuerit [illegible]
Quid si attractione aliorum Cometarum ac planetarum [illegible] in aliquo motus elementis [illegible]
inducta mutatio [illegible] [illegible] ex elementis [illegible] [illegible] [illegible] Quid demum
si [illegible] huiusmodi aliis evenerit ut Cometa [illegible] [illegible] [illegible] [illegible]
non possit aut saltem non procedat [illegible] [illegible] [illegible] praedictionibus [illegible]
visionis Cometarum quae [illegible] [illegible] sunt propositionem nostram non [illegible].

Quod additum est minus [illegible] [illegible] [illegible] nemo descripsit, planetasque diversos [illegible] [illegible]
dat et iisdem [illegible] elementis diversis temporibus describat, sic plane nemo [illegible] [illegible] Co-
metas diversos non [illegible], unde [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] pro diversis Cometis [illegible] habebuntur [illegible] [illegible]
diversa quidem observata sunt, modo [illegible] [illegible] [illegible]
reddatur. [illegible] [illegible] posito [illegible] [illegible] planetarum [illegible] ac [illegible]
[illegible] [illegible] diversis [illegible] apparitionibus [illegible] plures, [illegible] [illegible]
[illegible] huiusmodi [illegible] [illegible] possemus assignare. [illegible]

Propositio [illegible]

Cometarum motus certas leges [illegible] et huiusmodi elementorum leges non servant

284 Pro. Cassinus [illegible] ut planetarum ita et Cometarum [illegible] [illegible] Zodiacum, [illegible] [illegible] constel-
lationes [illegible] [illegible] [illegible] descripsit

Antinous Pegasus Andromeda Taurus Orion

Procyon atque Hydra Centaurus Scorpius [illegible]

Sed vero aliqui reipsa [illegible] Cometae qui Zodiaco [illegible] [illegible] [illegible] Oriente [illegible]
[illegible] ab Occidente in Orientem et a [illegible] [illegible] 34 [illegible] plures Alhazeno in [illegible]
[illegible] [illegible] verbo in omnes [illegible] [illegible] [illegible] hypothesi [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] non [illegible] [illegible]

290 opp. i Motus Cometarum [illegible] retrogradus [illegible] [illegible] [illegible] planetis [illegible] [illegible]
Cassinus in memoriis Parisiensibus anni 1731. 490 4t.

[illegible] motus Cometarum [illegible] [illegible] plane Cometas Zodiacum [illegible] ut planetas
[illegible] [illegible] [illegible] [illegible] in omnes [illegible] [illegible] [illegible] Cometas
[illegible] omnes [illegible] [illegible] Zodiaco [illegible] [illegible] [illegible] [illegible] planetas [illegible]
[illegible] a positione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] non [illegible] [illegible] [illegible] [illegible] 173 ad propositionem 47
[illegible] principio [illegible] et Cometas plures [illegible] qui ad [illegible] Zodiacum [illegible]
[illegible] [illegible] plures [illegible] [illegible] [illegible] [illegible]

ut verus polos moverentur et avenit in Cometa anni 1554 cujus directio in Austrum erat et in Cometa anni 1556 cujus directio in Boream et qui videmus [illegible] motus [illegible] 295

291 Oppa si motus [illegible] astros ut non servarent motus idem legibus iisdem non [illegible] [illegible] motus [illegible] quod esset contra suppositionem primam [illegible]

[illegible] tamen non in eodem orbe moventur omnes, nec omnes directione [illegible] nec omnes [illegible] eodem [illegible] vero [illegible] planetarum motus in [illegible] comentis [illegible] eidem motus [illegible] planetarum [illegible] motus [illegible] a motibus planetarum [illegible] in [illegible] differre, nemo negabit [illegible] [illegible] omnibus et [illegible] planetis communes [illegible] motus quos [illegible] in propositione prima spectabimus [illegible] in quibus differentiae motuum hujusmodi sunt ut pendeant [illegible] libero [illegible] arbitrio et [illegible] [illegible] legibus [illegible] singulis [illegible] corporibus diversa [illegible]

Caput Tertium

De Cometarum substantia ac natura

292 ut Cometae [illegible] [illegible] [illegible] [illegible] non dabit [illegible] naturam [illegible] [illegible] [illegible] tempore conspiciuntur, ac remotiores a tellure [illegible] difficiles [illegible] observationes possint [illegible] [illegible] [illegible] sententias [illegible] variis [illegible] [illegible] [illegible] [illegible] probabiliorem, [illegible] et ergo

Propositio Prima

293 Prob. prima pars: [illegible] in Cometis [illegible] phases observatae [illegible] enim Cometa [illegible] corpora obscura scabra, et opaca quae lucem [illegible] a sole [illegible] 296
[illegible] [illegible] dimidia [illegible] parte illuminatam [illegible] ergo Cometae [illegible] Accedit Cometarum [illegible] [illegible] debilis ac scintillatione [illegible] [illegible] corporibus per se lucidis omnino non convenit ergo

Prob. Sec. Pars. [illegible] Cometae [illegible] [illegible] [illegible] planetarum, et lumen habent [illegible] [illegible] [illegible] [illegible] ergo hujusmodi esse debent [illegible] propria non [illegible] lucem [illegible] [illegible] in [illegible] reflectere. Patet vero hujusmodi [illegible] non esse, si scabra [illegible] et opaca corpora non [illegible] [illegible] de planetis [illegible] [illegible] Cometae corpora [illegible] opaca [illegible] [illegible] quod [illegible] [illegible] et de Cometa anni 1506 legimus in memoriis Academiae [illegible] ad annum 1507 quare [illegible]

Prob. Ter. Pars [illegible] [illegible] phases in Cometis observatae [illegible] [illegible] [illegible] [illegible] lumen [illegible] Praeterea [illegible] intra planetarum regionem [illegible] [illegible] [illegible] [illegible] planetarum [illegible] [illegible] [illegible] [illegible] comet.

294 Si Cometae essent corpora obscura [illegible] lumen a sole [illegible] omnes [illegible] phases [illegible] phases [illegible] habuerunt ergo [illegible]

[illegible] Planetae [illegible] phases [illegible] [illegible] corpora [illegible] lumen a sole [illegible] [illegible] [illegible] Cometis [illegible] [illegible] in Cometis, [illegible] causa [illegible] [illegible] in planetis [illegible] a sole [illegible] [illegible] [illegible] causa quae Cometis [illegible] [illegible] [illegible] lumen a sole [illegible] [illegible] [illegible] [illegible] soli [illegible] [illegible] partes [illegible]
[illegible]

195. Obj. 2. Cometae sunt corpora pellucida, si ea corpora veri Cometae posita videntur et Cometae ipsi varias formas induunt variosque induunt colores et magnitudines, haec autem [illegible] non nisi in pellucidis corporibus evenire posse putat.

Resp. Haec non efficiunt ut pelluciditate donandi Cometae donari [illegible], nam fateor corpora trans Cometas [illegible] rariores et atmosphaeras posita videri, cum enim et ad nos haec [illegible] quae radiis luminis [illegible] per [illegible] corporum evenire quae [illegible] vero nucleus Cometarum idque omnium observationibus [illegible] nego in unoquoque [illegible] maxime observatur.

Resp. Spectat varietas Cometarum formas, colores et magnitudines et [illegible] planetae [illegible] differunt forma colore magnitudine [illegible] forma colore magnitudine [illegible] spatii Cometae [illegible] sive aplanetis, [illegible] Cometae non eandem semper formam nec colorem eandem et magnitudinem [illegible], infra ostendamus itaque et [illegible] solstitiori [illegible] [illegible] formam colorem et magnitudinem [illegible] Cometae et planetae [illegible] [illegible] ex [illegible] varietate [illegible] hanc diversitatem varia planetarum [illegible] distantia a sole et [illegible] haec non possunt ut Cometae pelluciditate donentur.

Propositio tricesima

Cometae non sunt exhalationes quae ex [illegible] in caelestibus spatiis concrescant aut lumen a sole recipiunt, aut ex se ipsis flammas emittunt.

296 Prob. Si cometae essent exhalationes [illegible] a sole [illegible] aut [illegible] [illegible] corporis [illegible] non [illegible] [illegible] ad corpora [illegible] Cometarum [illegible] a sole [illegible] [illegible] non possent [illegible] [illegible] solis [illegible] [illegible] Cometa anni [illegible] [illegible] [illegible] [illegible] centesima [illegible] [illegible] Dubuit [illegible] major [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solis [illegible] [illegible] [illegible] motus [illegible] [illegible] motus corporis sequi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quantitatem materiae habeant in [illegible] [illegible] exhalationum [illegible] omnino in Cometis observatur. [illegible] Cometae [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

300 Opp [illegible] observationes [illegible]

[illegible] observationes [illegible]

[illegible]

[illegible]

[illegible] a reproductione hominis aut similibus

93 [illegible] a reproductione [illegible] et formam [illegible] formam [illegible]

[illegible]

[illegible]

[illegible] 309

[illegible] 310

[illegible]

[illegible] 312

[illegible]

[illegible] voluit Mercurius, Venerem, et Martem satellites habere nullos [illegible]

[illegible] sui, et Jovem quos satellitibus donavit, uti Saturnum annulo, eodem [illegible]

[illegible] habet, cur nullos circa satellites circa [illegible] non [illegible]

[illegible] planetis similes. Ad vero satellites de [illegible]

[illegible] [illegible] quae illos [illegible] videatur esse [illegible]

satellites [illegible] ut [illegible] suo [illegible] aliquid in [illegible] primarii [illegible]

[illegible] appareat [illegible] de natura [illegible] 313

[illegible] satellites [illegible] diversitas [illegible] inter [illegible]

[illegible] ad accidentales differentias [illegible] [illegible] nullam [illegible]

[illegible] 1632 [illegible]

[illegible] planetis similiter [illegible] hinc [illegible] nullis [illegible]

et [illegible] cometarum [illegible] Discrepantes ostendimus; itaque nec [illegible] [illegible] ipsum systema Cometarum planetaris distare.

309 Opp. 3 Si cometae essent eodem planetarum ad solis distantiam pertinentes, [illegible] aberratione [illegible] motus solaris [illegible] [illegible] [illegible]

[illegible] Diss. [illegible] [illegible] [illegible] duplici [illegible] (ut [illegible] [illegible] motus [illegible] [illegible] [illegible] [illegible] [illegible] utriusque autem [illegible] et in hac [illegible] [illegible] [illegible] num. 220 et 224 [illegible] [illegible] [illegible] in [illegible]

310 An cometae [illegible] planetas esse [illegible] [illegible] ex [illegible] in planetis detecta sunt [illegible] [illegible] [illegible] [illegible] analogia [illegible] [illegible] nulla [illegible] [illegible] et observationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] montibus vallibus maribus [illegible] [illegible] [illegible] [illegible] [illegible] in ipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporales [illegible] [illegible] [illegible] motum [illegible] [illegible] [illegible] [illegible] [illegible] ad haec in planetis [illegible] [illegible] [illegible]

[illegible] apud [illegible] et [illegible]

311 Cometae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Descriptis plurimis [illegible] cometae [illegible] [illegible] [illegible] cometae [illegible] non [illegible] [illegible] [illegible] [illegible] cometarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

312 Prob. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] licet [illegible] oculis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] plurimas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cometas non esse [illegible] solis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in planetis [illegible]

Propositio secunda

Cometarum caudae [illegible] [illegible] [illegible] [illegible] [illegible]

313 Prob. [illegible] cometarum caudae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in partem soli oppositam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] observationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] accesserunt [illegible] volat [illegible] cap. [illegible] de [illegible] corporum [illegible] descripsisse
Astronomicis praedictionibus [illegible] at [illegible] cometis [illegible] anno 1337 [illegible]
[illegible] unde [illegible] observaverat [illegible] majorem quod cometa anni 1680 qui [illegible] [illegible] caudam
[illegible] habuit caudam [illegible] [illegible] [illegible]
[illegible] minor [illegible] cometa majoribus caudis [illegible] 319
[illegible] habent et [illegible] cometa anni 1680 longiores et breviores caudas [illegible]
[illegible] quod [illegible] quam [illegible] [illegible]
Propositio [illegible]
[illegible] cometarum caudae non sunt radii solis per [illegible] cometarum corpora [illegible] [illegible] radii solis [illegible] ad [illegible] [illegible].

311 Prop. Prima Pars [illegible] in primus cometarum pellucida corpora non sunt [illegible]
243. [illegible] caudae [illegible] [illegible] per ipsos trahi possunt [illegible] admittenda [illegible] radios [illegible] non sunt solis radii [illegible] [illegible] potest vero [illegible] radios [illegible] caudae [illegible]

Prop. Sec: Pars. [illegible] cometarum [illegible] 312
[illegible] refractione [illegible] caudati [illegible] [illegible] in coelestibus spatiis [illegible] caudae cometarum a refractione [illegible] caudae [illegible] directione [illegible] cometa anni 1680 [illegible] [illegible] cauda [illegible] anno 1680 [illegible] [illegible] [illegible]

315 [illegible] spatiis caudatis [illegible] refractionem [illegible]
Sed prop. [illegible] caudatis [illegible] observationes [illegible] 316
[illegible] refractione [illegible] in [illegible] [illegible] non [illegible] [illegible] constantia [illegible] spatiis [illegible] variis [illegible] [illegible] non potest. [illegible]

Prop. [illegible] cometarum caudae non [illegible] radii [illegible]
[illegible]
320
Sed [illegible] proponit [illegible] cometarum [illegible] [illegible] [illegible] observationes [illegible] cometas [illegible] [illegible] cometa anni 1680 [illegible] [illegible] 50 [illegible]

27 ... Januarii sequentis ... Ipsa cauda ... magnitudinis ... cauda habita ... satis clarae ad ...
... diebus ... Februarii caput ...
... quam nulla ... distantia ... Propositio quarta

Cometarum caudae videntur ex vaporibus oriri qui ... in regiones a sole aversas

3127 Prop. Nat caudae cometarum videntur ab aliqua actione solis in cometas ... 3123

Porro actiones solis quae ... sunt vel ... radiis suis ... sed actio solis a qua videntur pendere cometarum caudae non est ... cometas ... Ergo actio ... solis in cometis ... Ergo cometarum ... effectus ... partes ... Ergo ... erunt ... His ... atque ... ... cometa ... et diversi cometae caudas habeant maiores prout magis ad solem accedunt ... in cometa ... et in cometis diversis prout ad solem magis accedunt maior ... calor ... maior inde ... vapores ...

... et vaporibus ... phaenomena recte satis ... cometarum caudae.

3128 ... caudae cometarum ... magnitudine ... a solis distantia ...
... ex ... radiorum solis et ... a sole, sed a causis aliis ... et maxime ...
... sed ... nostra ... ad solem accedit ... minoris tamen ...
... causa ...
... maiores caudae ...
... phaenomena ... magis ...
... maiorem ... caudae ... solis ... quod ... nostra ...
... ostendere ... Propositio quinta

Ascendunt vapores qui ... caudas ... in partes soli ... adversas ...

3129 Prop. ...
...
...
...

Prop. ...
Prop. ... solis radii ...
... ostendimus ...

3130 ... radii solis ...
...
...
...
...
... cometis ...
... solis radii ...
...
... crescent ...
... nostro ...

321 [illegible] [illegible] intervenit a lucis [illegible] obscura movent [illegible] orienti [illegible]
Sed motus illos corporum [illegible] quasi [illegible] videtur a [illegible] non [illegible] [illegible] ris impulsione [illegible] sed [illegible] [illegible] [illegible] [illegible] demonstrata [illegible] mutata luminis. [illegible] sequitur ex hoc si verum luminis impulsio motum [illegible] [illegible] causa [illegible] esse [illegible] [illegible] enim luminis [illegible] [illegible] [illegible] [illegible] in aere [illegible] unde motus [illegible] aere [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Ascensus vaporum [illegible] qui caudas componunt [illegible] videtur a solis admosphere actione

322 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] caudarum cometarum explicantur [illegible]
[illegible] caudae in parte soli aversa semper apparent; [illegible] vapores qui constituunt caudas [illegible] pressione [illegible] solis admosphaera elevantur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ab admosphaera [illegible] [illegible] elevantur [illegible] et [illegible] [illegible]
2 caudae [illegible] in parte soli aversa [illegible] et [illegible] a directione solis declinant [illegible] [illegible] partes quas cometa [illegible] in orbe suo [illegible] [illegible] quia [illegible] vapores [illegible] caudas constituunt [illegible] motum [illegible] pressione solaris admosphaerae [illegible] [illegible] soli [illegible] a cometa [illegible] [illegible] hinc vaporum caudae [illegible] [illegible] [illegible] [illegible] motus directione [illegible] non [illegible] soli oppositum sed [illegible] [illegible]
3 caudae [illegible] non [illegible] sed vapores [illegible] admosphaerae solis [illegible] [illegible] communicat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vapores [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] caudae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] partes [illegible] [illegible] [illegible] motu [illegible] [illegible] [illegible] et tota caudae [illegible]
[illegible] [illegible] [illegible] caudae [illegible] in [illegible] cometae [illegible] [illegible] [illegible] [illegible] vapores [illegible] directione motus [illegible] a sole [illegible] [illegible] [illegible] caudae [illegible] motus directione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
5 [illegible] caudae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] densior, quam [illegible]
[illegible] caudae [illegible] [illegible] [illegible] et [illegible] apparent [illegible] vapores [illegible] [illegible] admosphaera solis [illegible] continuo [illegible] admosphaerae [illegible] [illegible]
[illegible] [illegible] [illegible] in caudis cometarum [illegible] [illegible] [illegible] [illegible] [illegible] cometarum [illegible] [illegible] admosphaera [illegible] [illegible] [illegible] argumentorum [illegible] caudae [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] explicandis 326

323 [illegible] [illegible] [illegible] [illegible] [illegible] cometa [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vaporum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cometae [illegible] [illegible] [illegible] vapores [illegible] admosphaera dilatata [illegible] [illegible] [illegible] componunt [illegible] vero [illegible] admosphaerae solis [illegible] majorem actionem [illegible] [illegible] vapores [illegible] continuo [illegible] [illegible] [illegible] partes admosphaerae [illegible] [illegible] pressione admosphaerae solis elevantur [illegible] in directione solis opposita [illegible] [illegible] [illegible] [illegible] apparet [illegible] caudas [illegible] [illegible] vapores semper soli opposita [illegible] [illegible] [illegible] [illegible] [illegible] cometa ~~[illegible]~~, a sole [illegible] et [illegible] [illegible] [illegible] [illegible] cometae directione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in parte solis admosphaerae [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] caudae [illegible] [illegible] [illegible] coincideret [illegible] [illegible]

...[illegible] nostrae [illegible]. [illegible] a sole [illegible]
[illegible] caudae [illegible] versus [illegible]
[illegible] atmosphaerae [illegible]
[illegible] caudas [illegible]
[illegible] vapores qui caudas constituunt [illegible] solari [illegible]
[illegible] atmosphaera [illegible]
[illegible] solis [illegible] caudae [illegible]

[illegible] Opp. [illegible] caudas [illegible] cometarum [illegible] a sole [illegible]
[illegible] vaporum [illegible]
[illegible] vapores [illegible] solarem atmosphaeram [illegible] etc.

[illegible] vaporum [illegible] cometarum [illegible]
[illegible] nostrae [illegible]
[illegible] vaporum [illegible] caudas [illegible]
[illegible]
[illegible]
[illegible]
[illegible] vapores [illegible]
[illegible]
[illegible]
[illegible] atmosphaera [illegible] a sole [illegible]
[illegible]

25 Opp. [illegible] vapores [illegible] caudas a solis atmosphaera [illegible] vapores [illegible]
[illegible] solari atmosphaera [illegible] solis [illegible]
[illegible]

[illegible] vaporibus [illegible]
[illegible] atmosphaera [illegible]
[illegible] vaporibus [illegible]
[illegible] atmosphaera [illegible]
[illegible] atmosph. [illegible]
[illegible] atmosphaerae. etc.

26 Opp. 3. [illegible] caudae [illegible] a sole distantia, [illegible] solarem atmosphaeram [illegible]
[illegible] solaris atmosphaerae [illegible] Zodiacalis [illegible]
[illegible] etc.
[illegible] atmosphaeris [illegible] solis [illegible] distantiae [illegible]
[illegible] solis [illegible] a sole [illegible] Zodiacalis [illegible]
[illegible]
[illegible]
[illegible] atmosphaera vapores [illegible] caudas
[illegible] a sole [illegible] Zodiacalis [illegible]
[illegible] atmosphaera [illegible]

[illegible] caudas [illegible]
[illegible]
[illegible] vaporibus [illegible]
[illegible]
[illegible]

[illegible] quavis hinc [illegible] distantia a sole in qua cometa [illegible] [illegible] 330
pervenerit a solis admosfera et candorem extendi: dein [illegible] solis admosfera, parte [illegible]
[illegible] mutare, quod [illegible] zodiacale [illegible] [illegible] admosfera
[illegible] parte [illegible] [illegible] constitutione non [illegible]
a sole possunt [illegible] in cometis [illegible] et [illegible]

328 [illegible] hec cometarum candorum atque caude [illegible] [illegible] [illegible]
[illegible] oblata [illegible] cometicarum [illegible] potest [illegible] [illegible] [illegible]
[illegible] cometarum a sole [illegible] a sole [illegible] partes [illegible]
[illegible] que subtiliores sunt condensantur [illegible] ad solem rursus [illegible]
[illegible] radiorum quo fit et in caudam extendi possit [illegible] cometicas
[illegible] a sole [illegible] [illegible] hinc [illegible] materiai habent [illegible]
[illegible] vertunt, [illegible] ultra [illegible] [illegible] solaris [illegible]
[illegible] initio [illegible] per [illegible] [illegible] paulatim et
successive [illegible] in tanta copia [illegible] que sensibilis esse possit hinc [illegible]
caudam [illegible], quod ipso planetae caudis [illegible] non [illegible], quin cauda [illegible]
[illegible] planetis [illegible] debere a materia solaris admosfera que admosfe-
re planetarum misceatur. animadversio [illegible] [illegible]
[illegible] habere locum posse, ut hi solari admosfera [illegible] [illegible] [illegible]
ro admosfera [illegible] nisi omnino [illegible] [illegible] [illegible] contra-
re [illegible] sensibiliter [illegible] [illegible] admosfera solis [illegible]
[illegible] partes [illegible] admosfere [illegible] misceantur [illegible] in [illegible]
[illegible] coloris [illegible] [illegible] solaris ad-
mosfere [illegible] colores [illegible] in [illegible] vapores [illegible]
[illegible] [illegible] et [illegible]
tempore [illegible] boreales [illegible] solaris admosfere materia [illegible]
[illegible]

Propositio Septima

[illegible] [illegible] continent [illegible] in cauda
[illegible] Boschovichio [illegible]

32 [illegible] [illegible]
[illegible] magis sensibiles et cometa [illegible] hinc [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Sectio Quarta

In qua plura exponuntur, quae adoptare [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] causa [illegible]

[illegible] non potest [illegible]

[illegible] solis [illegible] omnium [illegible]

[illegible] exemplo [illegible] demonstrare [illegible] 336

[illegible] caloris [illegible]

[illegible] causa [illegible] solis positione et caloris conservatione [illegible]

[illegible] caloris et [illegible]

[illegible] natura [illegible]

[illegible]

Quod spectat attractionem lunae [illegible] intra majora corpora [illegible] effectus quae producat sensi[illegible] [illegible] ad corpora tamen minora [illegible] [illegible] et effectus [illegible] [illegible] physicos [illegible] attractionem solis [illegible] et lunae effectus [illegible] habeus illos, [illegible] experimentis [illegible] [illegible] quae tamen omnem [illegible] effectibus ipsis [illegible]. [illegible] vero ratio illa est [illegible] attractionem [illegible] [illegible] [illegible] [illegible] [illegible] quae attractionem [illegible] [illegible] nullas [illegible] in actione solis aut lunae [illegible] [illegible] [illegible] [illegible] [illegible] attractiones [illegible] [illegible], et [illegible] [illegible] effectus [illegible] attractionem [illegible] [illegible] [illegible] [illegible] [illegible] oppositum [illegible] [illegible] ostendamus [illegible] [illegible] [illegible] [illegible] astrorum [illegible] procedunt

Instant. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] si experimentum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in corpora [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] attractionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

836 Instat [illegible] [illegible] [illegible] in mari, et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et actionem lunae [illegible] [illegible] [illegible] observationibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sensibilem [illegible] in mari [illegible] [illegible] effectum sensibilem [illegible] [illegible] in aliis corporibus [illegible] [illegible] [illegible] [illegible] [illegible] in mari [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] actionem lunaris aut [illegible] et attractio [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible]

837 Obj. 3 Effectus [illegible] sunt, quae diversis astrorum [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] quod adversarii [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

22 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Et vero pariter [illegible] sit, quod adversus [illegible], ut [illegible] ventos in Zona torrida [illegible] plurimos qui iterum [illegible] lunae [illegible] motibus, vel [illegible] influxibus adscribendum [illegible] annuo, ud [illegible] Planetarum [illegible] ventorum huiusmodi [illegible] fluxus maris ad [illegible] Zonae torridae [illegible] [illegible] notibus [illegible] esse [illegible] adversarii [illegible] qui possint [illegible] [illegible] plane non video: primo enim [illegible] observatores [illegible] [illegible] aliquod [illegible] solis [illegible] [illegible] [illegible] continuatis [illegible] [illegible] in insula Borbonia [illegible] [illegible] [illegible] constantes [illegible] [illegible] [illegible] nautis [illegible] constantes [illegible] venti Zonae torridae longe absunt a relatione quod [illegible] [illegible] hinc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nulla [illegible] sensibile, venti [illegible] [illegible] ventos [illegible] constantes [illegible] [illegible] [illegible] [illegible] constantes [illegible] lunae motibus respondeant [illegible] [illegible] [illegible] [illegible] lunae influxus [illegible] solis [illegible] [illegible] [illegible] nostras mutationes producere [illegible]

[illegible] quod [illegible] [illegible] [illegible] lunae [illegible] oportere [illegible] si luna [illegible] [illegible] [illegible] tempora [illegible] terrae [illegible] [illegible] [illegible] [illegible] venti [illegible] naturalis [illegible] Carolus Stephanus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] simili [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nostri Padri [illegible] opinioni del volgo [illegible] [illegible] tempora [illegible] [illegible] [illegible] [illegible] [illegible] circumstantiis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] humidi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] horae [illegible] observationes in [illegible] vulgatas [illegible] ad [illegible] horae [illegible] commissio [illegible] [illegible] commentariis [illegible] [illegible] praeter [illegible] observationes [illegible] correctione temporis [illegible]

[illegible] quod [illegible] occasione [illegible] animantium [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] Canis d'India [illegible] quis [illegible] quid haud [illegible] [illegible] quod hora [illegible] [illegible] observatio [illegible] [illegible] [illegible] quod autem spectat ossa animantium habemus testimonium [illegible] qui observationem [illegible] annos amplius 25. continuatis [illegible] [illegible] animalium ossa [illegible] [illegible] morbo [illegible] ante mortem fuisset [illegible] vero ossa semper medulla [illegible] [illegible] quod hic spectat [illegible] [illegible] [illegible] [illegible] [illegible] Nam pisces hi [illegible] non [illegible] hora [illegible] [illegible] [illegible] [illegible] hora [illegible] [illegible] [illegible] [illegible] [illegible] observationes [illegible]

[illegible] corporis humani morbis [illegible] horae [illegible] [illegible] [illegible] [illegible] habemus [illegible] [illegible] observationibus [illegible] [illegible] [illegible] primus non in [illegible] [illegible] [illegible] [illegible] [illegible] morbi [illegible] diversitate [illegible] [illegible] [illegible] nulla inter morbos [illegible] [illegible] observationes [illegible] testimonium [illegible] memoriis [illegible]

Et quos per periodos praedixi effecturos, in quibus potiores adversarii influxum apparere querentes habent, ingeniosiores cum dicat luna cum positionibus aut phasibus aut motibus [illegible] respondere [illegible] Harum [illegible] [illegible]
his actiones physicas ostenderimus, patet [illegible] [illegible] [illegible]
pendentibus sentiendo sit nempe [illegible] [illegible] [illegible] [illegible]
sunt Keplerii et Bartolini quod [illegible] quodam ad lunam mutationem [illegible]
in alterius [illegible] pro lunae incremento vel decremento [illegible]
[illegible] aliter [illegible] lunae aut aspectus positiones [illegible]
a solis vero absolute [illegible] aspectum aut unam positionem [illegible] sol [illegible]
contractus: sic [illegible] tempore [illegible] [illegible]
[illegible] [illegible] mutationem [illegible]
[illegible] [illegible] et [illegible] illa [illegible]
morphosi influxum [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] conditiones non [illegible] [illegible]
in illa circumstantia [illegible] [illegible]
[illegible] exempla [illegible] [illegible]
[illegible] illud nobis ostendere videtur [illegible] quod [illegible]
[illegible] impressio solis et lunae [illegible] influxum [illegible]
[illegible] habere [illegible] et causae [illegible] consultius [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] apparerent relationes 339
[illegible] aut lunae motibus [illegible] [illegible] physicos [illegible]
[illegible] [illegible] [illegible]
[illegible] influxu [illegible] [illegible]
338r Caput [illegible] aspectus positionibus [illegible] [illegible]
[illegible] praedixerunt [illegible] in aspectibus et [illegible]
[illegible] [illegible] effectus naturales et [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
planetas omnes [illegible] [illegible]
[illegible] [illegible] [illegible]
continere [illegible] [illegible]
[illegible] et annos [illegible] planetarum conjunctiones [illegible]
[illegible] ordinarius [illegible]
[illegible] praedictiones [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] observavit [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]

nullaque efficacia [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sacerdotes oracula [illegible] [illegible] effectus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] daemonibus oracula [illegible] [illegible] aut [illegible] [illegible] [illegible] [illegible]
naturalibus causis poterant [illegible] nam oracula [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] Si [illegible] ergo licet astrologorum praedictionum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] tamen [illegible] [illegible] [illegible] [illegible] [illegible] perspicuis dabimus

[illegible] amplius [illegible] [illegible] astrologi [illegible] [illegible] [illegible], observo fortuitis [illegible] spectatis [illegible]
[illegible] [illegible] de [illegible] [illegible] eventibus astrologorum praedictionibus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] plurimum [illegible]
ant. [illegible] [illegible] [illegible] aliquid [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ipsius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] committat et [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] veritatem [illegible] [illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pos
sibiles [illegible] [illegible] probabilitas praedictionis verificandae [illegible] probabilitatem [illegible] [illegible]
[illegible] [illegible] et [illegible] adeo [illegible] [illegible] [illegible] [illegible] et circumstantias perpendere
[illegible] [illegible] [illegible] [illegible] [illegible] et naturaliter [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] hinc licet [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] saepe posse [illegible] praedictionibus respondere eventus nec [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non
posse et [illegible] [illegible] [illegible] praedictionis veritate [illegible] [illegible] [illegible] ~~[illegible] [illegible]~~

33 Ita apparet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et mala [illegible]
plurima hominum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] eclipsi [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] opportunitatem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] potentis
[illegible] [illegible] Alexander magnus [illegible] ad Arbelas [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a [illegible] mala sibi [illegible] [illegible]
[illegible] eclipsi conspecto [illegible] [illegible] [illegible] [illegible] [illegible] anno 1654 plures in
Gallia [illegible] [illegible] [illegible] [illegible] [illegible] totalis eclipsis solaris forte et
[illegible] [illegible] [illegible] mala omina [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quibus totalis [illegible] eclipsis [illegible] [illegible] terror [illegible] [illegible] [illegible] [illegible] [illegible] philosophi
eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] mala [illegible] [illegible] [illegible]
[illegible] philosophorum [illegible] [illegible] quibus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] mutantem [illegible]
[illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
et Virginibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] arma unde [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

Splendor lunare sol, per l'orta [illegible]
che [illegible] [illegible] [illegible] [illegible]
e [illegible] [illegible] [illegible] [illegible]

Postquam ergo ostendi [illegible] [illegible] rationem [illegible] eclipsium et cometarum [illegible] 344

[illegible]

Eclipses et cometae nullas significant calamitates, nullosque infaustos
eventus producunt

[illegible] Prob: Veritatem hanc argumentis optimis probat Baile [illegible] quod dicit [illegible] [illegible]

[illegible] ad [illegible] [illegible] omnem [illegible] sive eclipses sive cometarum apparitiones [illegible] naturales [illegible] ab [illegible] motibus [illegible]

et [illegible] naturae ordine [illegible] [illegible]

2° [illegible] si nullas calamitates [illegible] nullosque [illegible] infaustos aut [illegible]

interposita [illegible] aut [illegible] [illegible] interposito corpore opaco solis [illegible]

[illegible] calamitates [illegible] aut [illegible] [illegible]

interposito lunae corpore prohibemur [illegible] et similes calamitates [illegible]

[illegible] ab apparitionibus planetarum [illegible]

[illegible] calamitates [illegible] infaustos [illegible] ab appa- 343

ritionibus cometarum [illegible] [illegible] [illegible]

[illegible] eclipsis solis ob [illegible] [illegible]

[illegible] solis [illegible] [illegible] et cometarum [illegible] apparitiones [illegible]

[illegible] [illegible] leges et motus [illegible]

[illegible] necessario et independenter ab omni [illegible]

[illegible] ratio [illegible] calamitates [illegible]

[illegible] eclipses et cometae.

3° [illegible] eclipsium et cometarum apparitiones [illegible] quibus [illegible] hominibus calamitates [illegible] obsidere [illegible]

[illegible] eclipses et cometae [illegible] calamitates [illegible] hominis [illegible]

[illegible] eclipsium et cometarum apparitiones a motibus astrorum necessario [illegible]

[illegible] omnino independenter ab homine [illegible] relatione ad hom[illegible]

[illegible] stato [illegible] homines [illegible]

[illegible] esse non poterunt calamitates [illegible]

[illegible] la ragione [illegible] Baile. [illegible]

[illegible] natura [illegible] [illegible]

[illegible] prodotto [illegible] [illegible] cagione [illegible]

[illegible] Porro nullo cuiusmodi eclipses et cometae calamitates [illegible]

[illegible] calamitates [illegible]

[illegible] calamitates [illegible] [illegible] naturales [illegible]

[illegible] habere [illegible] hominem [illegible] eclipses [illegible]

[illegible] calamitatem [illegible] oriente et occidente [illegible]

[illegible] [illegible]

[illegible] non [illegible]

[illegible] Baile [illegible] tempo [illegible]

[illegible] [illegible] [illegible]

[illegible] cagione [illegible]

[illegible] [illegible]

ad calamitates [illegible] non videt [illegible] 4[illegible]

342. [illegible] Eclipses et Cometarum apparitiones separare [illegible] [illegible] [illegible], [illegible] quod illas praecesserunt [illegible] eclipses et [illegible] tempora [illegible] ra [illegible] ad calamitates [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] respectu [illegible] rerum ordinatae [illegible] praesertim quae [illegible] [illegible] [illegible] multis a Bertio [illegible] [illegible] [illegible] [illegible] [illegible] cometarum apparitionis [illegible] calamitatem, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Coeli Destinatione, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] coelestibus potius et [illegible] apparitionibus quod [illegible] [illegible] [illegible] calamitatem [illegible] [illegible] [illegible] nullo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Destinatione [illegible], et cometarum apparitiones [illegible] [illegible] calamitatem [illegible], quod [illegible] &c.

343 [illegible] cometae [illegible] calamitatem [illegible] habentes, [illegible] historiis [illegible] [illegible] [illegible] [illegible] [illegible] apparitiones [illegible].

344 [illegible] historiis cometarum [illegible] [illegible] determinando [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in primis si cometarum apparitiones calamitates aliquae [illegible] [illegible] [illegible] [illegible] tempus [illegible] [illegible] rerum humanarum conditio et [illegible] miseria, [illegible] [illegible] commoda [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] publica Destinatio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] calamitates [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] publica aliqua calamitate [illegible], plures regiones [illegible] [illegible] [illegible] optime procedunt [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible], et calamitates potius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] qui a calamitatibus cometas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] bona omnia [illegible] [illegible] dicerent [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] edito libro [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] collige [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cometarum apparitiones [illegible] [illegible] aliquos [illegible] [illegible] [illegible] [illegible] [illegible] Bertius [illegible] [illegible] cometarum historias [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] toto orbi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] conditione [illegible] [illegible] annos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in universo [illegible] quod [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] annis [illegible] plures vidimus cometas [illegible] [illegible] [illegible] [illegible] calamitates [illegible] [illegible] [illegible] [illegible] in humanis rebus [illegible] [illegible] [illegible] [illegible] cometarum apparitiones [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] calamitatibus [illegible] [illegible] [illegible] [illegible] cometae apparuerunt [illegible] intra annos [illegible] [illegible] [illegible] [illegible] [illegible] semper numero [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] adversari [illegible].

Sed rectius Dicere is historia in hac re non satis attenderit sive enim bona sive mala cometarum apparitiones fuerint secuta nulla ratione [illegible] a cometis vel indicata dicantur [illegible] [illegible] [illegible] [illegible], ut prospera simul et infausta [illegible] quia cometae vel apparitiones [illegible] eventus [illegible] aliquos faustos vel infaustos subsequentur, [illegible] tamen hi [illegible] a cometis [illegible] [illegible] [illegible] [illegible] [illegible] ubi cometarum apparitiones [illegible] aliud omnes [illegible] principes [illegible] nativitatem [illegible] [illegible] [illegible] vel infausti subsequentur, nec tamen [illegible] [illegible] nativitate [illegible] [illegible] eventus illos aut significatos [illegible] aut productos [illegible], [illegible] in cometarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a cometa anno [illegible] [illegible] [illegible] ut [illegible] menses [illegible] [illegible] [illegible] [illegible] maximo, et [illegible] [illegible] [illegible] [illegible] ita [illegible] [illegible] Philippi [illegible] regis [illegible] anno 1558 grande, [illegible] solita fuit [illegible] [illegible] [illegible] [illegible] Ballius [illegible] cometae [illegible] ad mortem [illegible] [illegible] quae spectat inter [illegible] [illegible] non facendo niente in vano non [illegible] certamente mostrata [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aggravato [illegible] mali [illegible] infermità [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] medicina poteva certamente morire senza che [illegible] [illegible] [illegible] accendere nei cieli un corpo cento volte più grande che la terra [illegible] [illegible] scatola di Pandora ripiena di tutte le [illegible] [illegible] che egli era così [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] anzi tutta l'Europa si [illegible] come avesse egli potuto alla sua malattia [illegible] [illegible] post Ballius [illegible] multis observationibus [illegible] ostendi posset [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et a cometis maxime [illegible] [illegible] [illegible] [illegible] [illegible] hoc argumentum [illegible] historia [illegible] [illegible] adversarii solent cometarum [illegible] efficaciam [illegible] illi [illegible] [illegible] post hoc ergo propter hoc [illegible] [illegible] [illegible] [illegible] a cometis indicata aut producta [illegible] nullo tamen [illegible] [illegible] mentem [illegible] omnino

3 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aliosque plures [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et vapores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non [illegible] [illegible] corporibus effectus [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] Ballius et quod ad eclipses in primis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] non può fare alcun male [illegible] [illegible] [illegible] [illegible] la terra sia illuminata [illegible] [illegible] [illegible] [illegible] essere di alcuna conseguenza [illegible] [illegible] persona che [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] si può [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] con [illegible] molto [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] o quattro ore [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per tutto il rimanente [illegible]

anno. Ciò non [illegible] contrario che non [illegible] allungare le notti di quel che ora sono perchè [illegible] dal sole non [illegible] [illegible] dà certi
convincere che le dense nuvole oscurando l'aria per cinque o sei giorni [illegible]
[illegible] Ecclissi di cinque o sei [illegible] senza nuvole avvenuto sono alcuna volta utili per
la raccolta. niuno ignora che si può star per un giorno privo di vino [illegible] senza
provarne danno. . . . . Sulla terra sono gli alimenti più necessarii [illegible]
il sole non è poichè alcune nazioni possono commodamente più mesi senza che [illegible]
il sole sul loro orizonte ora [illegible] questa [illegible] per non si vole [illegible]
prevedere che la luna o [illegible]. Delle pietre possono per pochissimo tempo [illegible]
[illegible] senza che avvengano infiniti disordini. ancora sino [illegible] che la mo-
[illegible] si questo [illegible] vada a [illegible] un [illegible] in mezzo a tutta la sua [illegible]
[illegible] da tutt'altra [illegible] a lui solo una mortal malattia [illegible] e altro
[illegible] ogni [illegible] aggiungiamo [illegible] [illegible] Dionysius [illegible]. duo in unum [illegible]
tendant. primo interdum eclipses vel lucem solis subtrahunt telluri sive animantibus
sive vegetabilibus [illegible] [illegible] posse; hinc immerito calamitates solent nonnunquam [illegible]
[illegible] ipsis homines timere; alterum eclipses licet solis lucem subtrahant telluri, nullum
vires [illegible] sive in animantibus sive in vegetabilibus [illegible] [illegible] hinc [illegible]
[illegible] illos eclipsibus [illegible] at.
[illegible] De Cometis [illegible] [illegible] de primo Cometarum influxus prosperos, [illegible]
posse patet ex Newtono [illegible] [illegible] temporis et [illegible] [illegible] a Cometis [illegible]
materia quod Sol amittit ex continua [illegible] [illegible] a Cometarum vaporibus atmo-
sphaeris in tellurem decidentibus suppleri [illegible] [illegible] [illegible] quidquid liquoris consu-
mitur per vegetationem et putrefactionem et in terram [illegible] [illegible], imo ex Come-
tis ipsis maxime venire spiritum illum qui aeris nostri pars minima est [illegible] et op-
tima et ad rerum omnium vitam requiritur [illegible] [illegible]: porro [illegible] causas
[illegible] adversarii Cometas vim [illegible] in tellurem [illegible]. [illegible] rationem [illegible]
[illegible] inde [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ut plura in hac re addere [illegible] [illegible] [illegible] tamen praestare possumus ar-
gumentis [illegible] [illegible] in primis Cometarum influxus [illegible] [illegible] [illegible]
Sed [illegible] nullos Cometae [illegible] sensibiles producunt in tellure nostra [illegible]
[illegible] sensibiles requirunt [illegible] [illegible] producere: [illegible] Cometarum [illegible]
[illegible] [illegible] [illegible] [illegible] 3314. [illegible] [illegible] atmosphaeris [illegible]
[illegible] producere [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] atmosphaeris [illegible] [illegible] [illegible] [illegible] [illegible]
majorem caeteris corporibus caelestibus [illegible] [illegible] vaporum [illegible] [illegible] [illegible]
tamen ipsi [illegible] a tellure remoti [illegible] [illegible] [illegible] [illegible] [illegible]
vapores [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Denique nec effectus sensibiles [illegible] producunt attractione vel impulsu [illegible]
[illegible] [illegible] nec Cometae prope [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] impedire [illegible] sed lib[er]at [illegible] observare [illegible] attractione dicebat [illegible] attractione [illegible]
[illegible]

[illegible] eclypsi[illegible] ac comet[illegible] [illegible] [illegible] 1690.

[illegible] notandum est quod [illegible] sit [illegible] imaginationis [illegible] et quod [illegible] plura [illegible] mala [illegible] nulla [illegible] [illegible] que in [illegible] eclypsi[illegible] et cometar[illegible] vulgo [illegible] inter [illegible] [illegible] ab [illegible] eclypsi[illegible] [illegible] cometar[illegible] [illegible] imaginationi et [illegible] [illegible] [illegible] eclypsi[illegible] et cometar[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Generale quando [illegible] [illegible] [illegible] non sapeva [illegible] [illegible] [illegible] [illegible] [illegible] il suo [illegible] [illegible] del Piloto e [illegible] [illegible] che [illegible] fosse [illegible] male rispose il Piloto che [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tutti i lor ragionamenti [illegible]

[illegible]

[illegible]

[illegible] latent maxime investigationibus [illegible]

[illegible]

[illegible] et critica canona constitu[illegible] historicis [illegible]

[illegible]

[illegible]

Porro [illegible]

[illegible]

[illegible]

[illegible] annis [illegible] numero [illegible]
[illegible]

[illegible] maiorem [illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible] omnia [illegible] ex his possint, quae in aliqua [illegible] nostra animadvertuntur, et [illegible]
[illegible] singula [illegible]

[illegible] ad nostram [illegible] est [illegible]
[illegible]
[illegible] habeant ut [illegible]
[illegible] crassissimam [illegible] et aqua [illegible]
[illegible] nostro [illegible]
[illegible] ex his [illegible]
[illegible]
[illegible] in omnibus [illegible]
[illegible] respirationem [illegible]
[illegible]
[illegible] et animalia [illegible] respirant [illegible] in plantis [illegible]
[illegible] et animalia [illegible]
[illegible] respiratione [illegible] respirationem [illegible]
[illegible]
[illegible]
[illegible] nostra [illegible] quod [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] ... a Deo est [illegible] ... [illegible]

Et [illegible] ... [illegible]

~~[illegible]~~ [illegible] ... Russiam [illegible] ... [illegible]

Hic enim [illegible] ... [illegible]

[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible] ad [illegible] nec [illegible] tamen [illegible] illos [illegible] ad nostra [illegible] ut [illegible] radio [illegible] solis [illegible]
[illegible] inde [illegible] in majoribus [illegible] distantiis a sole unde [illegible]
[illegible] colore [illegible] in [illegible] mille [illegible]
[illegible] colore [illegible] ardentis quippe [illegible] ad alteram [illegible] cometae [illegible] non [illegible]
[illegible] coloris et [illegible] nec [illegible] planetas [illegible]
[illegible] non [illegible] non [illegible] ut [illegible]

[illegible]

[illegible] homines [illegible] non possunt [illegible]

[illegible] homines [illegible] non [illegible]

[illegible] Thomas [illegible]

[illegible] opinionem [illegible]

[illegible]

[illegible] ingenio aut omnes [illegible]

[illegible] in scripturis [illegible]

[illegible] adoniay [illegible]

[illegible] creationis hominis [illegible]

[illegible] Adamo [illegible]

[illegible] hominis [illegible]

[illegible] differentias [illegible]

[illegible] prius non potuit, ut illos rejiceret

[illegible]

[illegible] adeoque valet [illegible]

[illegible] possibile est [illegible]

[illegible] hujus hic [illegible] in statu [illegible] innocentia [illegible]

[illegible] innocentiae [illegible]

[illegible] hominem [illegible]

[illegible] animam [illegible]

non potuisse [illegible] [illegible] [illegible] modo [illegible] [illegible] et nomine. Et [illegible]
[illegible] et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ne [illegible] ultra [illegible] [illegible]
[illegible]

[illegible] nec [illegible] et [illegible] [illegible] [illegible]

[illegible] et [illegible] [illegible] [illegible]

[illegible]

[illegible] communicare [illegible]
[illegible]
[illegible]

[illegible] conditiones [illegible]

[illegible]

[illegible] conclusio [illegible]
[illegible] quicquid multo [illegible] magna potentia [illegible]
[illegible] ista conclusio [illegible]
[illegible]

effluvia emittenda itaut lumen efficiant ostendemus. Sed dein in corporibus quae lucent insignis videtur fermentatio ac motus partium vibratiuus [illegible] fermentationis ac vibratorii motus effectus mirabiles sunt relate ad effluviorum emissionem; inde enim fit quod Zibetti granum, et moschi [illegible] res odoriferae effluvia per [illegible] spatium emittant, et similiter granulum incensi igni iniectum [illegible] effluviis [illegible] replet templum. [illegible] licet ob insigniorem fermentationem, ac motum vibratorium [illegible] non sit, ut lucida corpora possint effluvia ea vi emittere quae lumen producant. Nam vim huiusmodi exportare [illegible] infinitam esse debere asserunt adversarii, propterea vires [illegible] [illegible] sunt a quantitate motus quem producunt in lumine, atqui motus quantitas quae [illegible] [illegible] velocitates in [illegible] tenuis est, licet velocitas sit maxima ut [illegible] ostendemus. Ergo vis [illegible] non infinita sed maxima [illegible] in effluviorum motum [illegible] sufficiat. [illegible] quae in lucidis corporibus habetur fermentatio et vibratio [et magis viva et activa] causa esse poterit satis apta, ut effluvia emittant ad lumen producendum. [illegible] in corporibus lucidis etc.

iio [illegible] corpora [illegible] lucem emittere, in quibus nulla conspicitur fermentatio: ergo a fermentatione [illegible] licet a fermentatione [non fit] effluvia a sole [illegible] debebunt tamen a maxima [illegible] in solis [illegible]. Ergo [illegible] in corporibus lucidis non est causa etc.

Venio ad primam distinguo: corpora [illegible] in quibus nulla apparet fermentatio concedo, in quibus nulla sit est nego; non enim nec in granulis Zibetti nec in floribus fermentatio videtur; eam tamen haberi emissio effluviorum evincit. [illegible] in lucidis corporibus poterit haberi licet non videatur. Nec de corporibus valent quae lumen emittere [illegible], nam quae lumen emittunt ab aliis [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [pariter] quod radii [illegible] atque [illegible] varios patiuntur reflectiones, ac demum [illegible] evanescant, ubi aditum inveniunt.

Ad 2. quod effluvia a sole emissa a solari attractione penitus in ipsum non retrahantur, inde obiici [illegible] tur cum Boschovichio, quod effluvia ob attractam solaris atmosphaera in [illegible] [illegible] penitus [illegible] bant, atque ad spatia e sole remotiora propellantur. Sed ut [illegible] diceris, vim qua effluvia e sole proiiciuntur majorem esse [illegible] vi solaris attractionis. [illegible] a solari attractione effluviorum motus retardari quidem [illegible] [illegible] non posse, [illegible] [illegible] lationes et corpora alia propria effluvia attrahant sensibiliter, inde tamen effluviorum ac [illegible] [illegible] motus non impeditur, [illegible] ergo a solari attractione motus effluviorum [impedietur] [illegible].

Caeterum [illegible] difficultatem adversarii [illegible] [illegible], [illegible] ignorari causam, et vim qua sol effluvia emittit. Ut causam huiusmodi et vim corporibus lucidis non negamus, qua effluvia ad [illegible] spatia diffundere, licet quae nam ipsa sit ignoremus, [illegible] negabimus soli, ac aliis corporibus lucidis, [illegible] [illegible] determinare nequimus. [illegible] etc.